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Mount Pleasant Press
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OVER

1907

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will positively destroy all soft bodied, sucking insects, including all forms of San José scale. It is simple, cheap, easily applied and wonderfully effective. Endorsed by government experiment stations, agricultural schools and thousands of fruit growers.

The above pictures are made from photographs taken at Sound Beach, Conn., in June, 1906. They were in like condition the year before. The right-hand tree was sprayed with Scalecide and saved. The other tree was left unsprayed and has been killed by scale.

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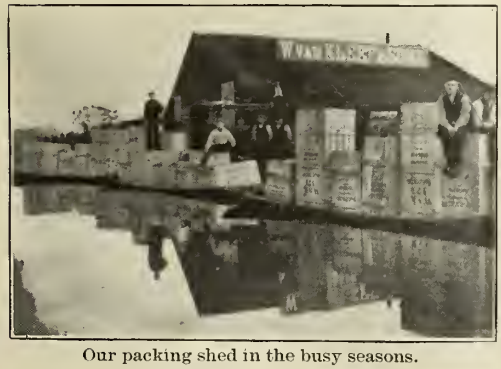

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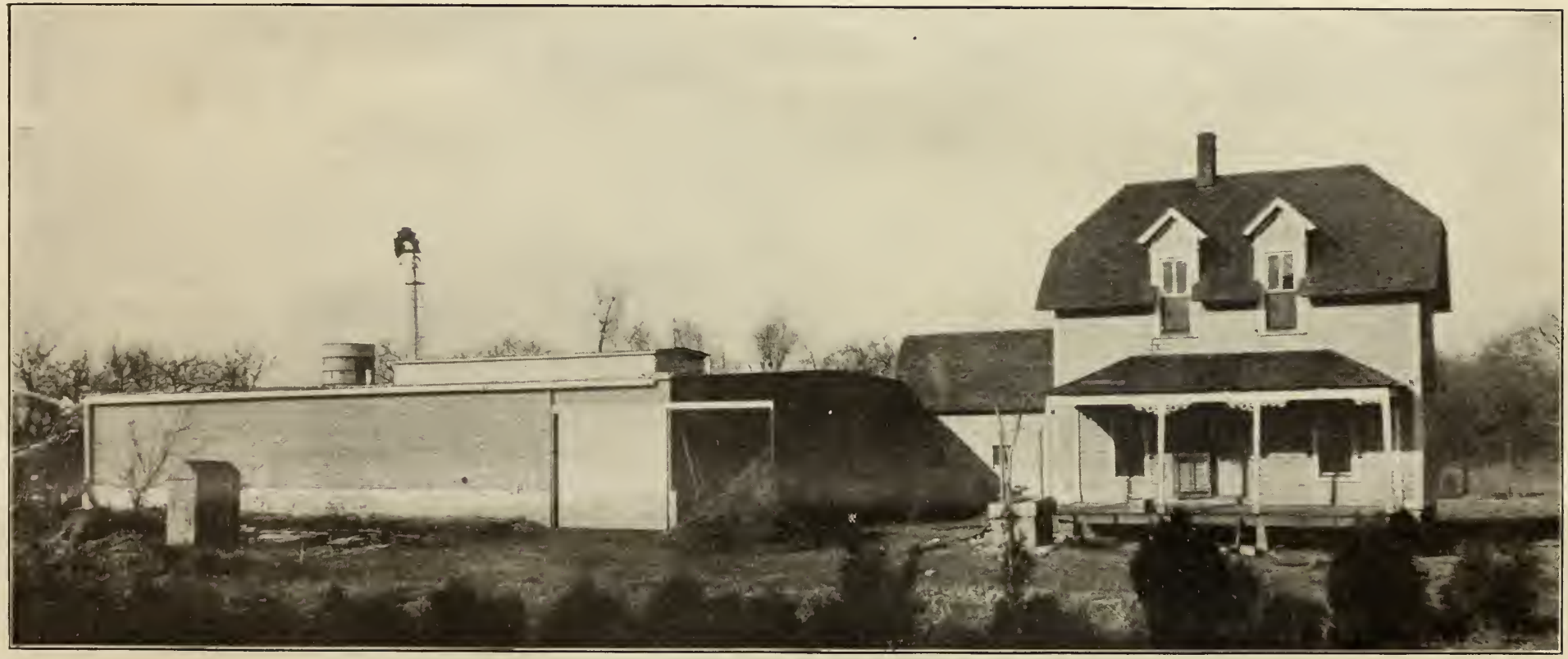

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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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SPRAYING FOR SAN JOSÉ SCALE.

AN EXPERIENCE WITH LIME AND SULPHUR ON PEACH TREES COVERING FIVE YEARS.

[By J. Norris Barnes, Yalesville, Conn.]

Our personal acquaintance with San José scale dates from the year 1901, when its presence was discovered in our 100 acre peach orchard, then about five years old. The orchard had always been well treated and the trees were of good size, vigorous and ready to yield returns in the way of fruit.

The discovery of the presence of scale was made in the spring and was a great surprise to us and some little time was used in trying to find out how large the infested section was and in deciding what treatment to give. Finally a very strong whale oil soap wash was used, put on the larger branches with a brush as a temporary relief measure, for the buds were too far advanced to permit the use of so strong a wash as this for a spray. This was all that was done in the year 1901 except to cut away the trees very badly encrusted with scale.

YEAR 1902 TREATMENT.

In the meantime various remedies were considered and the lime-sulphur-salt spray selected as the method we would attempt to subdue and hold in check the scale. A steam boiler, about new, of some four to six horsepower capacity was secured, and the necessary piping and fixtures for cooking the contents of twelve casks at once, so arranged that any one or more might receive steam independently of others. Casks holding 100 or more gallons were used, fitted with faucets near the bottom for drawing off the cooked liquid. We could learn of no place in this section where we could go for advice and instruction and so, to a certain extent, had, as it were, to feel our way, both as to appliances, arrangement of the cooking plant to do the work economically, and

A spraying demonstration. Note extension pole with swivel top for elevating and directing nozzles. In the orchard of Foster Udell the veteran orchardist of Brockport, N. Y.

in preparing and applying the spray. Many vexatious delays and perplexing questions as to why, so and so, were more or less present with us during this first season's attempt to save our orchards by means of this treatment. Investigation during the preceding year had shown us that greater infestation existed than we at first supposed could be possible, that probably the whole orchard was affected, here and there a tree or more showing the insect present, but with something like 6,000 to 7,000 trees sprayed, we were compelled to stop by the bursting buds. During this time we used a barrel pump mounted on a single horse stone-boat, one man to pump, two men to spray. We had to take men who had no idea of spraying work and teach them how to do the work. Forty pounds of lime, 30 pounds of sulphur, 15 pounds of salt, 60 gallons of water boiled about two hours was our formula for that season's spray mixture, and we aimed to put it on the trees very hot. In spite of more or less faulty preparation, frequent heavy rain storms and the prevalence of high winds nearly every day, also the necessity of covering all the ground possible, these conditions somewhat preventing thorough work being done, the results were to a large degree gratifying.

The general appearance even where they had been badly infested, was that of strong vigor, the scale apparently being mostly killed. The cost per tree for the job of spraying was estimated at 10 to 11 cents. In the fall of this year several days spraying were done on a section needing such work rather badly, in about the same manner as just stated but with rather indifferent results. A large per cent. of scale seemed to have escaped harm and the whole of this section was gone over again the next year.

YEAR 1903 TREATMENT.

In preparing for the year 1903 spring spraying, having found our boiler of entirely too small capacity for our needs, we made arrangements for greater steam power, giving us some ten or twelve horsepower and selected a place near water convenient to the orchard, using three barrel pumps on boats, same arrangements as year previous, except one lead of hose in place of two to each outfit. An average output per day for each outfit was ten casks of forty gallons or more, or from 1,200 to 1,500 gallons of spray liquid per day for the three outfits. It required two men at the boilers. One was kept busy most of the time stirring the slaking lime and drawing the the liquid from the cooking tanks and straining ready for the pump barrels. The other man took care of the boilers, attended to the weighing out and putting together of the materials, water, etc., and taking general oversight of the plant. When working near by, the spraying outfits came directly to the boiler for their spray, but for points in the orchard more distant, the spray liquid was strained directly into common tanks holding 40 to 50 gallons, fitted with iron plugs, and drawn by wagons directly to the place needed, and unloaded on to a movable platform of convenient height, the empties returning to boiler for use again. This plan kept a constant supply of hot liquid spray ready for the convenient use of the outfits.

This season the formula mostly used was 30 pounds lime, 20 pounds flour of sulphur, 15 pounds salt, 60 gallons of water, cooking one and one-half to two hours. Various other formulas were tried, also the length of time of cooking was varied, but we seemed to get the best results in putting on by method just described above. About all the trees were gone over the second time, when wind was in opposite direction if possible, to cover every place not reached by the first spraying. It is estimated that we used a total of over 36,000 gallons of spray liquid, which required more than 13,000 pounds sulphur, 16,000 pounds of lime, 7,500 pounds salt, costing about $500.00 ; cost of labor, including horses, $562.00 ; cost of coal besides wood used, $20.00 ; cost of sundry expenses, repairs, etc., $25.00 ; charge for deterioration in value of the plant, $50.00 ; a total of about $1,157.00, as the cost of spraying about 11,000 trees, or about ten cents per tree.

Something like one-half the number of trees sprayed were quite severely cut back, for several reasons, one being that it would presumably greatly lessen the cost of the job of spraying; and we found that the cutting back did greatly lessen the quantity of material and labor used. The last two or three days' spraying damaged many blossom buds as well as the foliage buds. It certainly is not safe to use this spray after the fruit buds have commenced to swell.

YEAR 1904 TREATMENT.

Inspection of the orchard showed very little scale apparent except on a few hundred trees that were not sprayed last year and which were the very first trees to receive the lime-sulphur spray in the first use of this material by us two years before. These trees were thoroughly sprayed in about the same manner and at about the same cost as before stated. Our plant for making the spray, however, was kept busy the whole of this season, making for others in the vicinity who came to us and took the ready-cooked spray away in barrels, in some cases carting a distance of several miles. The charge made for preparing the spray including material was about two cents per gallon or $1.00 per 50-gallon cask. None of these orchards were treated this present year, results appearing to be very satisfactory.

The pressure of work required of us in the spring season, from our large nursery and orchard interests is very great, while in the late fall it is much easier to take care of such a job, so in the fall of 1904 we concluded to attempt another job of spraying with the lime-sulphur spray, the work being done on an orchard away from our home place distant about ten miles. The orchard consists of what is left of a fifteen-year-old orchard, say 1,500 of these very large trees, about the same number of young peach trees of bearing size and about the same number of apple trees eight years old, down to trees one or two years planted. The work was done during the month of November. Two pumps with two leads of hose to each pump were used. Thirty pounds lime, 20 pounds flour of sulphur, 10 pounds of salt, 60 gallons of water were used. The trees were thoroughly sprayed in appearance and no very severe storms interfered to spoil the work. Several of the men cost us $1.75 per day of nine to ten hours and horses and all expense items were charged. The great difference in the size of the trees renders the cost per tree, estimated at seven cents per tree, rather misleading, but the job cost us about $300.00, including moving the boiler and fixtures, setting up, piping a running water supply, pulling down the plant and returning it home again.

Spraying by steam—plenty of power, the air full of spray.

YEAR 1905 TREATMENT.

Very little spraying for scale on orchards here at the home place had been done since the spring of 1903 and inspection of the orchards showed some scale present though not in numbers sufficient to make any great trouble if not sprayed before another fall or spring. We concluded, however, to spray a part of the orchard so that with bad weather conditions or other hindrances we would not feel so pressing a necessity as if it were all left for another year which without doubt would be the longest time we could put off the job.

Having now a powerful boiler we did not use the old plant but piped onto the new one. This gave us a great abundance of steam. The slower cooking by the old boiler gave us the amber or brick color in the cooked spray but rarely the green color which we formerly considered objectionable. The use of the greater amount of steam allowed us to prepare several hogsheads of liquid at the same time, but the amber color came very quickly and soon changed to a green color. Cooked in this manner we had no difficulty in preparing in thirty minutes. This season we dispensed entirely with the salt, using 30 pounds lime (lump) and 20 pounds flour of sulphur with 60 gallons of water. The lime was put in warm water, the sulphur added and cooked with the slaking lime in part of the water needed, then as the cooking approached completion, the rest of the water was added by means of a pipe. If the steam force does not keep the cooking lime and sulphur thoroughly stirred it should be done by hand. If properly cooked and the right materials are used there should be very little sediment left at bottom of cask. We still use a one-horse stone-boat or sled with pump and barrel on same, and one man to pump and drive, two leads of hose, each at least 25 feet long with extension rod attached, this allowing plenty of room for two men to work. We try to have thorough work done, repeating the work if necessary.

Spraying that was done in April showed very plainly on our trees on Sept. 16, and no scale apparent and no damage apparent from the spring spraying, either to fruit buds or foliage. The fruit gathered as well as that from other sprayed orchards was quite free from black spot and fungus work in general, clear and bright fruit.

As to the cost of this season's spray work, I feel sure that it was less than our first year or two, yet not down to the figures per tree that some other orchard men mention. On our large sized trees we probably use more than two gallons per tree rather than less, and to the cost of this has to be added the cost of hauling and applying. In regard to the orchard sprayed last fall, while we killed most of the scale, something seemed to be the matter with the blossoms this spring ; they had little vitality, many of them not setting their fruit and a large per cent. more dropped off or withering on the twigs within thirty days after blossoming. We finally secured but several hundred baskets where we should have harvested several thousand. I do not know whether to charge the loss to the fall spraying or not. The trees themselves are apparently in perfect condition. Perhaps others may know just where to charge such a loss as this.

I am inclined to think the spray is worth all it costs as a

fungicide in giving clean, healthy trees and handsome fruit. While the scale has cost us a large sum of money to learn how to control and keep it down, to date, we are past fearing it on peach trees for thorough work will certainly keep it in check for two years in succession and possibly three years. Our home city and village fruit gardens are full of scale and but a short time must pass before they are gone and the owners must restock with reset or buy their whole fruit supply, provided no plan is put in operation in near future to remedy this condition of things. While this condition of things is very unfortunate for the family living in the city it certainly is an encouragement to the thorough orchard man to persevere and conquer, for the careless and shiftless fruit man has little chance to successfully grow fruit in the near future.

YEAR 1906—DO NOT FAVOR WINTER SPRAYING.

While a portion of our orchards was sprayed one year ago (having been sprayed two years before) still a large amount of work remained to be done to complete the program, it being now three years since last sprayed. In the three-year-old orchards of about sixty acres extent, a tree could occasionally be found showing scale, which made us feel more strongly the need of going over these before the buds opened. As favorable weather offered during last winter spraying was commenced. We soon found we could not use this lime and sulphur when it would freeze on the trees before setting and drying. This made conditions of work quite uncertain and also increased the expense over spring spraying. We have thus far never received as good results from fall as from spring spraying. These and other reasons will prevent our attempting to use this spray again in the fall of the year. Most of what we did, however, as it was, we accomplished after March 1st, using the same method of cooking, handling and applying as described in 1905. Our lime and sulphur we purchased in car lots, thus getting bottom costs for material for spray.

The conditions of that portion of orchard not sprayed for three years was now very bad—the worst infected lot of trees by far we ever sprayed. During the whole job we never ceased to feel like saying, "How fortunate we sprayed the other part last year!" While we lost no trees as a result of the bad infestation, and they have done fairly well through this season, still they have enough scale on them now to make it best to spray them again this coming spring. This shows that quite a few scale escaped. When scale can be found readily on a tree without much search it is full time to spray that tree and others adjacent. The increase in numbers during a single season from such a condition of infection is amazing. We conclude, also, that two years is plenty long enough, if not too long, to cease spraying for scale, and unless the most thorough work is done during favorable weather conditions, it is best to go over orchards every year. The valuable influence of this spray as a germicide aside from its use as an insecticide should be noticed.

The orchard of peach and apple trees mentioned as sprayed in November, 1904, was again thoroughly sprayed in the latter part of April. Last year we had a full blossom but practically lost the crop of fruit from some cause not understood, but we were inclined to charge it to some effect on the soft buds and young wood of the fall spraying.

Spraying shrubbery and lawn trees for San Jose Scale.
Using the hand pump.

This year we had one of the finest quality crops of fruit ever grown on the orchard, being quite free from effects of fungous attack, of fine color and having most excellent keeping qualities, points in which the fruit from this orchard in previous years had been deficient in.

We do not feel satisfied with the results of our fall and winter use of this spray either in killing scale thoroughly, or in protection from re-infection during summer, and expect to make no further use of it in that way, but depend upon spring spraying in future. Some three years ago in planting an orchard in a locality presumed to be free from scale, as an extra precaution we concluded to trim our trees ready for planting and dip top down to root in cold lime-sulphur mixture. We got some surprising results. Many trees were killed as far as dipped, many more the wood partially so, the small sized trees suffering most. The large trees suffered but little. The job of trimming and dipping took two or three days and trees remained some days in cellar before planting, so there may have been some condition unknown to us in the operation. But the results were as stated, so that the next job of the kind we have done will be seen to personally.

SOLUBLE OIL SPRAYS.

A WORD OF CAUTION.

Our readers expressed a great deal of interest in the article on this subject in the November issue of the NATIONAL NURSERYMAN. We drop this word in the way of a mild caution, not to discourage, but to suggest that there are some things about this type of spray that we don't yet understand. We are not sure, for instance, that all petroleums are equally effective as scalecides. We do know that they contain varying proportions of the basic substances. We also know that the manufactured insecticides actually contain different amounts of petroleum itself. Good results have not come to all users of the material. These varying results may be chargeable in part to the thoroughness or lack of thoroughness of application, and perhaps in part to quality of oil. We should not run away with the idea that such results as were reported in the issue referred to will be obtained every time by those who spray. The thing to do, is to use the remedy in the most thorough manner and according to the best directions obtainable, then carefully study the effect.—ED.

Doings of Societies.

MARYLAND HORTICULTURAL SOCIETY.

ORLANDO HARRISON ELECTED PRESIDENT.

The ninth annual meeting of this organization was held in Baltimore, December 5th and 6th. In conjunction with the meeting an exhibition of fruits and flowers was held. W. H. Duckham, president of the National Chrysanthemum Society, spoke on chrysanthemum growing; F. W. Bessley on forestry in Maryland, and Prof. T. B. Symons gave a report as state entomologist on the injurious insects of the year. The exhibit of fruit and flowers was the finest in the history of the society.

Mr. Orlando Harrison, president of the American Association of Nurserymen, introduced the mayor of Baltimore, who welcomed them to the city. In Mr. Harrison's introductory remarks he emphasized the need of a building in which the activities of the various horticultural organizations might be centered in Baltimore. This should be called Horticultural Hall. A banquet, presided over by Mr. Harrison followed the meeting.

Resolutions were passed condemning the free seed distribution by the government, and the meeting closed by electing the following officers: President, Orlando Harrison; vice-president, C. J. Seibold; secretary and treasurer, Prof. T. B. Symons.

The members of the Iowa State Horticultural Society were entertained at a banquet by Mr. Wesley Greene on the evening of December 12th. The banquet was held in the Savery House, Des Moines, Iowa.

One of the features of the Pacific Coast Nurserymen's meeting was a trip from Hanford to Santa Rosa, where a short session of the convention was held on Monday, December 3d. Here the members of this society met Luther Burbank, the famous plant breeder, and were conducted by him through the experimental grounds.

ILLINOIS STATE HORTICULTURAL SOCIETY.

This progressive state association held its fifty-first annual convention in the Agricultural College buildings of the University of Illinois, on December 12th, 13th and 14th. The program was an attractive one, including a discussion of orchard management, the marketing of the crop both at home and abroad. Mr. W. A. Taylor, of the Division of Pomology, spoke on the fruit export trade, and Dr. Forbes will make a report on nursery and orchard inspection.

The Southern Illinois Horticultural Society elected the following officers for the ensuing year: A. V. Schemerhorn, Kinmundy, president; J. C. B. Heaton, New Burnside, 1st vice-president; E. R. Jinnette, Anna, 2nd-vice-president; G. W. Endicott, Villa Ridge, 3rd vice-president; E. G. Mendenhall, Kinmundy, secretary and treasurer.

The Western Fruit Jobbers' Convention occurs in Kansas City, January 2nd to 4th. An interesting group of papers will be presented, but the pièce de résistance will be the banquet, at which Charles H. Williamson will act as toast-master. This will be held in the Midland Hotel, Kansas City, January 3rd, at eight o'clock.

NEW YORK FRUIT AND PRODUCE ASSOCIATION.

This association met in New York on Tuesday, December 4th. Routine business was transacted. The following officers were elected: Thomas P. Wallace, president; A. F. Young and W. J Phillips, vice-presidents; Joseph B. Smith, treasurer; J. W. Pfeiffer, secretary; Ward W. Smith, manager; executive committee, John E. Furman, Wm. Voorhees, John W. Nix, S. H. Frost, L. J. Lippman and T. J. Roberts.

THOS. MEEHAN HORTICULTURAL SOCIETY.

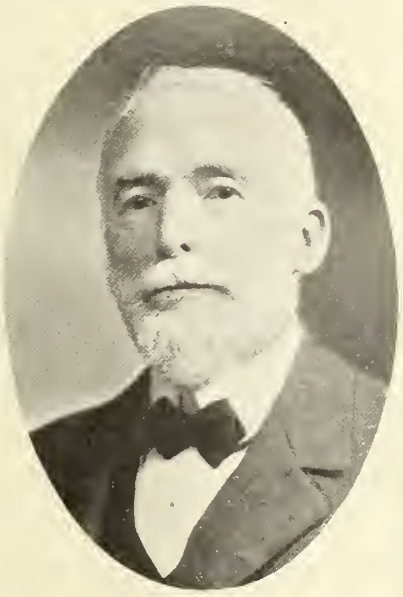
At the regular semi-monthly meeting of the Thomas Meehan Horticultural Society held in the Plan Room of the Landscape Department's offices, the following officers were chosen for the ensuing year: President, Samuel Baxter; Vice-President, William Lamb; Secretary, Henry A. Illman.

After an interesting and optimistic address by the retiring President, Mr. Warren Chandler, the subject for the evening, "The Winter Storage of Vegetables, Fruits and Plants" was discussed from several points of view. Mr. S. Mendelson Meehan gave an address on the storage and preservation of fruits, while the practical methods of the winter storage of vegetables, flowers, trees and roots were treated in the order named by Messrs. Illman, Hemming, Lamb and Baxter.

The discussion following the addresses was participated in by nearly all the members present and an interest manifested in the Society which the firm of Thomas Meehan & Sons, Inc., encourages for reasons both educational and practical.

Obituary.

At West Grove, Pennsylvania, in the seventy-second year of his age, Alfred F. Conard, President of the Conard & Jones Company, passed away early in the morning of the 15th inst., after having suffered a very short illness of acute pneumonia. Although far advanced in years, Mr. Conrad up to the very last day of his life continued to take an active interest in the affairs of the business of which he was President, having spent considerable time at his desk the day before his death. Among the men who have been most prominent in the floral business and especially the growing of roses during the past fifty years, few, perhaps, have been more conspicuous, or have done more for the development of the mail order business in the floral line.



Alfred F. Conard.

Mr. Conard formed the firm of Conard & Brother, but later entered into partnership with Charles Dingee under the firm name of Dingee & Conard. The business formed at that time was largely in the general nursery line and employed agents. There were but two greenhouses in use and the establishment was known as the "Harmony Grove Nursery."

About the year 1867, the firm began more extensively the propagation of roses, Antoine Wintzer having been secured as propagator, and by a method then entirely new they began to grow roses in constantly increasing quantities. At this time Mr. Conard compiled the first mail order catalog to sell roses and was really the pioneer in this line, having been largely instrumental in organizing the mail order business in flowering plants, which soon extended all over United States and to foreign countries, establishing a remarkable reputation for West Grove roses.

About 1892, Mr. Conard became separated from the Dingee & Conard Co. and established a new business in his own name, and later, in 1897, associating himself with S. Morris Jones, a prominent business man of West Grove and with Antoine Wintzer, who had already made his reputation as one of the most successful propagators of roses in the country and who had worked with Mr. Conard ever since his start in the business, organized the Conard & Jones Co. While it was constantly the aim of this firm to build up a reputation for first class stock in all kinds of ornamental flowers and shrubbery, roses have always held first place and since the incorporation of this company, have been grown in large and constantly increasing quantities.

Mr. Conard has been for many years a director of the National Bank of West Grove, and interested in other organizations of a more or less prominent nature. He was a member of the Society of Friends, and regular in the attendance of its meetings. In 1862 he was married to Lydia C. Hughes, daughter of Samuel and Mary Ann Hughes, and sister of Mark Hughes, of West Grove. He is survived by Mrs. Conard, a sister, Sara C. Satterthwaite, of Kennett Square, and a brother, Pennington Conard, of Philadelphia.

The National Nurseryman

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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Hardly have we learned to write 1906 without mistake or hesitation when the final numeral changes and we are introduced to a new calendar. Wise he who realizes that now is a good time to take stock of the year's experience as well as the condition of his lists.

1907.

But we are not going to indulge in a homily although it is conventionally proper at this time. We would rather express the pleasure we have experienced in our associations with the members of the great tree and plant growing fraternity during the past year and add the hope that the feeling has been mutual.

The year 1906 has not been without its discouraging features, but the favorable outweigh the unfavorable and the new year is ushered in with a general feeling of optimism and confidence. May our best hopes be realized and may pleasure and prosperity visit the homes of the tree growers of the country is the wish which accompanies "a happy new year" from the NATIONAL NURSERYMAN OFFICE.

When committees are appointed to do work, it is the fashion of lay members of most associations to sit back quietly and let these men do all the work—and jump on them if they don't.

ENCOURAGE THE COMMITTEES.

Of course, committees are the executive officers of the associations, and are depended upon to carry out the associations' work; but the committees of the American Association of Nurserymen want the help, the suggestions, and active aid of every member. Let everyone chip in. You ary busy? So are the committees. It's their business, say you? Sure enough, but you helped appoint them, and you should now assist them in carrying the responsibilities. Offer a suggestion; drop in a criticism, if you will. Anything to indicate your interests are wider than your own immediate business. An oyster is an appreciated type of animal at times. He shuts himself up in his shell, meddles with no one, and wants no one to meddle with him. But the oyster type of citizen isn't the most efficient, nor the most appreciated. We want men who will think outside of their own business, who will be generous of their time and their energies. These men we have in the membership of the American Association of Nurserymen.

The death of the venerable George Ellwanger, briefly chronicled in the December issue, removes the senior member of the noted firm of Ellwanger & Barry, of Rochester, and a valued citizen, from the arena of horticultural and civic activities. For many years he has been one of the most striking figures in the horticultural world. His life was a long and successful one. He passed the three-score-years-and-ten milestone, and had he lived one week longer would have celebrated his ninetieth birthday. Mr. Ellwanger's coming to Rochester was one of those fortuitous happenings fraught with great results to the city. He came to Rochester nearly seventy years ago, a young man, having in him the careful training acquired in academic halls and in the practical plant world in Germany. After some prospecting further west, he chose Rochester as his scene of labors, and engaged in the seed business, from which he stepped a few years later to tree and plant growing

THE LATE GEORGE ELLWANGER.

enterprises. In entering this he formed a partnership with the late Patrick Barry, of Rochester, and founded the respected and influential firm of Ellwanger & Barry.

This firm has been closely associated with the æsthethic and economic advances of horticulture for more than half a century. Mr. Ellwanger had a keen eye for distinctions, values and characteristics of trees. He knew them and loved them. Mr. Barry was eminently a pomologist. The combination of two men with these ideals was rare, the result most happy.

The following letter, written on September 8, 1903, to the Secretary of the American Pomological Society, on the occasion of the Boston meeting, illustrates Mr. Ellwanger's recent interest in Pomological affairs :

"Fully appreciative of your valued favor of the 4th inst., and the forthcoming meeting of your Society which has done so much to advance the interest of pomology, both here and abroad, I nevertheless, extremely regret my inability to be present with you this week. Owing to recent illness, I hardly feel able to undertake the journey to your beautiful city at present; I shall be with you in spirit however, if not in person; and I extend to you, one and all, herewith, my best wishes for the continued advancement of a Society to which I feel proud to belong."

Fraternally and sincerely,
GEORGE ELLWANGER.

Mr. Ellwanger was connected with many philanthropic movements in Rochester, personally, and as a member of the firm. He not only aided but originated charitable enterprises. The establishment of Highland Park, one of the handsomest recreation areas in the country, was due entirely to the generosity of this firm. As a business man the judgment of the senior member was relied upon, and his counsel frequently requested by the executive bodies of various business associations in the city of Rochester. The space given in the news and editorial columns of the Rochester papers is a strong tribute to the esteem in which his memory is held. In the culture and literary productions of the sons of this scholarly man, the fruits of a home training are clearly discerned. He has gone to his reward, but the fruits of his labors shall live after him.

METHODS OF ORCHARD CULTURE.

Fruit growers of the present time are not so much interested in the question of whether orchards should be cultivated or not, as in the more special question of how they should be cultivated. The Ohio Experiment Station has been attempting to answer this question and has published in Bulletin 171 the results of a six-years' test of four different methods: first, cover-crops; second, clean culture; third, sod culture; fourth, sod mulch, or grass mulch culture. Smmarizing the results, the authors of this bulletin say that the continuous clean culture system is impracticable in Ohio. Surface washing and root killing are among the serious difficulties to be met and overcome. The trees in the cover-crop plot have made very satisfactory annual growths, though not so heavy nor uniform a growth as the trees under the sod mulch plan. The trees in the sod culture scheme had a circle some four or five feet in diameter cultivated clean each year. These have not made nearly as vigorous a growth as either the cover-crop trees or the sod mulched trees. All the clippings of the grass in these plots has been concentrated beneath the trees and has greatly added to the amount of vegetable matter. As a result of these investigations, the authors are disposed to recommend the sod mulch system. It must be remembered, however, that under the conditions of this experiment the whole program was carried out with the utmost exactness. Whether the same results would be obtained by the average fruit grower is a question worth considering.

LIVE INFORMATION.

That the readers of trade papers as well as regular horticultural periodicals want useful, instructive matter is demonstrated every day. The province of a trade paper is not that merely of a news-monger. The NATIONAL NURSERYMAN is less concerned about publishing 439 separate and distinct pieces of horticultural gossip each issue, than it is to give its readers something that they can use in their business. The usefulness of the November issue was very agreeably demonstrated by a demand for copies far in excess of the issue. We regretted very much that requests for a couple of thousand extra copies could not be met. This was embarrassing, though gratifying. We hope to make each issue speak for itself, and always in terms of live matter.

VALUE OF AN ORCHARD TREE.

What is the annual increase in value of an apple tree in orchard is an interesting question, and was discussed in a late number of the *Rural New Yorker*. The opinions of half a dozen prominent fruit growers and nurserymen, among whom we find the name of Emory Albertson, vary considerably. One man estimates that an apple tree increases in value to the amount of one dollar for each year of the tree's life, after setting in orchard. Other estimates are lower. Albertson is of the opinion that an acre of land planted with good varieties of apples, and interplanted with suitable varieties of peach, will increase in value from $50 to $75 per acre in a period of six years. Of course a good deal will depend on the varieties of apples, the kind of soil in which they are planted, and the care which the trees annually receive. It would be easy to imagine an orchard which might be an actual incumbrance to the land instead of an asset. It seems reasonable to suppose that an apple tree under favorable circumstances will increase in value to the amount of fifty or seventy-five cents per year from the time of setting in orchard till the time it reaches full maturity. This in the case of the Northern Spy would give each tree a value of from $20 to $25, which is moderate. Peach trees figured in the same way would have about half that value.

INSECT TROUBLES.

There is no field or no place in the active world in which the old adage that prevention is better than cure works with more certainty than in dealing with insect pests. It is true here if anywhere in the world. We have but to look at some of the striking examples, which might have been prevented, to demonstrate the proposition. What would the exclusion of San José scale have meant to this country? It would mean that millions of dollars would have been saved annually in many departments. Think of the saving to the nation for inspection work; to the nurseryman in stock and necessary preventive

measures; to the orchardist in trees destroyed and expense in protecting others. How much inspection at ports of entry and in the greater nursery centers would a small fraction of this great sum have paid for.

There is no question at all that an ounce of prevention in the form of inspection of imports would have saved millions by the exclusion of the San José scale. But there may be other pernicious insects awaiting the opportunity afforded by new climatic and fruit conditions for rapid development. We hear of a new and dangerous imported peach scale in the South that promises to rival the San José scale in virulence. These remarks are made for the purpose of asking the question, whether or not the federal government should take up at an early date this whole matter of inspection of imported stock and take into consideration the inspection of all stock grown for interstate shipment.

Our Book Table.

"How to make a Fruit Garden," S. W. Fletcher. 10½" x 7½". 283 pages. Doubleday, Page & Co. Illustrated with half-tones.

This volume is written in the special interest of the amateur fruit grower, but the principles which it enunciates are just as applicable to commercial conditions as they are to the limitations of the home garden. Among the leading topics discussed in the twenty-four chapters composing the body of the book are the site, the plan, the selection of varieties, planting, tilling, pruning, picking, prevention of enemies. Then the specific fruits are dealt with individually. An appendix contains a considerable amount of useful information, such as formulas for spraying, analysis of fertilizers, rules for the exhibition and judging of fruits, and varieties of fruits suitable for planting in the different states, as recommended by the American Pomological Society. The book is pleasantly written and is exceedingly comprehensive in its scope. It cannot fail of popularity over a wide range of territory.

"The New Agriculture," by T. Byard Collins. 8½" x 6". 374 pages; illustrated. Price, $2.00. Munn & Company, New York.

This is another book of the type which has recently grown popular, whose function it seems to be to idealize and eulogize the recent advances in agriculture. This volume treats the subject in terms of panegyrics. Its tone is lofty and pompous and it discusses rural affairs in terms of broad generalizations, taking as accepted facts many things which as yet are mooted theories, and building beautiful air-castles thereon.

The fields in which recent advances in agriculture have been made are explored superficially, but exploited unstintedly. Irrigation, fertilization, new creations, new varieties, new practices, and so on, are glowingly described. We have no quarrel whatever with a volume which describes issues and conditions squarely, but we do draw the line at such high-falutin nonsense as appears in this volume. There is a charming disregard of scientific accuracy, and an optimism which is beautiful "beyond compare," but which is quite unsupported by experience or facts. The good that a book of the kind may do is to lead men into the field, hoping that their vision may be clarified after they obtain admission therein, by persons who are qualified to speak and who can do so with some degree of moderation and accuracy. As a type of "new creations" in books we heartily commend this volume to the collector of literary curios.

CAPT. WATROUS "UP AGAINST IT."

A letter from our genial friend Watrous of Des Moines, closes with this paragraph :

"I had the luck to be run over by a 'devil-wagon' a week ago, escaping with life, but my left leg from the knee down is very badly crushed, so that I am mostly in bed and getting very 'grouchy' and cross." While we know the captain is game we sincerely hope that it will not all settle in his leg. [Ed.]

Correspondence.

VIRGINIA NOTES.

Editor National Nurseryman :

Winter came on early with us; we had snow by the middle of November. This delayed packing and caused some slight damage. Stock with us about exhausted, in fact, we could not fill all orders received. We were injured considerably on October 9th, by a severe freeze that killed many, of some nursery trees, to the ground, consequently, we had to use many one year trees, as we could not get two year trees in this state.

The railroad company has caused a lot of trouble by the poor attention given to nursery stock in this section, nearly all shipments have been delayed to a great extent.

Respectfully,

E. W. Jones Nursery Co.

Woodlawn, Va.

LOUISIANA CROP PEST COMMISSION WORK.

Editor National Nurseryman :

I am now at Shreveport, La., having come to attend the State Fair. I came primarily to see the entomological exhibit of the Louisiana Crop Pest Commission, gotten up by Prof. Wilmon Newell, Secretary of the Commission, and his staff of efficient assistants. Their exhibit covers a floor space of 800 square feet and is probably the most extensive exhibit of the kind ever gotten together for a fair, excepting of course, the national exhibit at the Pan-American and other expositions.

The best feature of the State Crop Pest Commission exhibit, is, perhaps, the large 15x20 inch bromide enlargements of photographs representing many features of insect control. They have about fifty pictures of this kind, many of them colored and all neatly framed. These pictures cover many different entomological problems.

The cotton boll weevil is represented by photographs and specimens, showing all stages of its life history ; maps showing its distribution, and cotton stalks taken from fields infested with the weevil. The value of proper cultural methods for control of the boll weevil is demonstrated in various ways.

The Texas cattle tick or fever tick, occupies a prominent place in the exhibit. The tick is shown in all stages by actual specimens, both dead and alive, and by enlarged and colored photographs.

A model farm, about six feet square, shows at a glance, the approved method of pasture rotation for the eradication of the Texas fever tick. The Crop Pest Commission has charge of the work in Louisiana in co-operation with the Bureau of Animal Industry, of attempting to eradicate the fever tick, a work that is now being taken up in all the southern states.

In addition to the subjects mentioned above, the exhibit of the Crop Pest Commission comprises spray pumps and equipment, bee-keepers' supplies, and glass cases containing life history studies of several more or less important Louisiana insects. The Commission is distributing literature bearing on the control of insects, etc., handing out souvenir pest cards.

bearing pictures of important insects, delivering lectures on the boll weevil, cattle tick, San José scale and other problems in insect control.

Altogether the Louisiana Crop Pest Comm., and especially the Sect'y, Wilmon Newell, and Harper Dean, Jr., Mgr. of the exhibit, and all members of the Comm. who have assisted in getting up this exhibit, should be highly complimented. No one who has reviewed the exhibit could express other than words of praise to all connected with the enterprise. The writer feels many times repaid for making the trip to Shreveport by seeing the things mentioned above.

Southern agriculturists have many problems to confront them, but none greater than the control of injurious insects and plant diseases. The importance of the work is becoming more and more apparent since the entomologists have by their investigations, shown the benefit that may be derived from even partial control of these pests.

R. I. Smith.

Nov. 19, 1906.

HANDLING NURSERY STOCK.

PERTINENT QUESTIONS—SUGGESTED BY "NOT PERFECT."

[Special for National Nurseryman.]

In a general way we should view most all things from an optimistic standpoint. But all considerations of a business-like nature must be founded on a business basis. "Not Perfect" has opened the big door to an important question to nurserymen and planters. Every progressive nurseryman makes broad claims in regard to producing first-class, well-developed stock true to name, and having unsurpassed facilities for digging and packing nursery stock. The claim is often made that the large (biggest) nurseries have the best facilities for handling their stock with the least exposures from digging until the stock reaches the hands of the planter. This claim, the writer has frequently found to be incorrect. I have been in large retail, as well as wholesale, nurseries where I have seen trees pulled, counted out and tied and left laying in the field from one morning to the next without even the protection of a tarpaulin. The writer is acquainted with several nurseries which are located two, three and four miles out from the city, or town, the packing cellars and office. The stock is all hauled from the nursery on wagons to the packing ground without protection from the wind and sun.

Just this week the writer passed a large wagon load of nursery stock which was left by the road side for the night; the load had a tarpaulin, 2 x 6 yards in size, spread over the top. The trees were loaded with roots out. Thus no protection was given to the roots whatever, and the thermometer registered 22 above zero that night. These trees were sold, no doubt, to parties who bought them as good stock. All practical nurserymen know that many persons who buy nursery stock know but little (and some care less) about planting trees. Though these people pay their good money, at (we hope—Ed.) good prices for the trees they buy, yet they fail from some cause to appreciate the value or comprehend the importance of caring for the stock they buy. This being true, however, does not justify a willful neglect on the part of the nurseryman who knows better. In the packing grounds of a prominent nurseryman last spring, the writer was present at the arrival of a carload of, mostly, cheery trees, all in tip top condition when placed in the trenches, but unfortunately the earth in which these trees were trenched was of a gumbo like nature. The trees were tied in multiples of 20's and the bunches set in and the roots covered by spadefulls of this waxey earth, packed on top of the roots without sifting it through and among the roots. When packing from these trees ten days later, the greater number of these roots were brown, but the trees went out all the same!

Not Perfect, but Trying to be Honest.

RAILROADS SHOULD HANDLE NURSERY STOCK MORE PROMPTLY.

THE SHIPPERS' TABLE.

Editor National Nurseryman:

We have been much interested in the transportation column, conducted recently, in the National Nurseryman, and believe this is a matter of vital importance to nurserymen in all parts of the country. While these matters should be thoroughly discussed through the columns of our trade journals, something should be done, if possible, at our next annual meeting to induce the railroads to handle nursery stock and other perishable merchandise more promptly. Only an united effort on the part of those interested will bring about the reforms needed. We are very much pleased with the progress already made by the Transportation Committee of the American Association of Nurserymen, and wish to call attention to the shippers' table issued by this committee, which gives the different classifications now in effect on nursery stock, and a very complete table of freight rates, both fast and slow, from the important nursery centers of Europe to thirty-eight different points, well distributed in the United States, which is of great value to nurserymen who do any importing. A good deal of other valuable information is contained in this pamphlet. We would like to see all nurserymen of the country becoming members of the American Association, taking hold of this matter in earnest, and assisting in various ways in gaining for nurserymen and other shippers of perishable merchandise, proper shipping facilities.

Yours truly, F. H. Stannard & Co.

Ottawa, Kas.

ON THE CHASE BAROMETER.

AN OPEN LETTER OF A PLEASED RECIPIENT.

Gentlemen:

We are in receipt to-day of your favor in the shape of a neat little barometer that works on principles entirely distinct from the usual line of those useful instruments.

If used as per your instructions it proves to be a very reliable indicator of either rain or dry weather, as the case may be. We tried it as soon as received, and rushing outside under a pouring rain, it was not slow in turning from dry to wet. We would want to try it during a windy storm, however, before we would vouchsafe for its accuracy as to indicating the velocity of the wind; but as for fair or rainy weather it is more accurate than the Weather Bureau, and I would not be surprised if, in time, it would take the place of that branch of the administration.

What a wonderful invention that little instrument is! Looking at it attentively, I am amazed at the marvelous things that the XXth Century has in store for the welfare of civilization!

Permit me to suggest to the inventor, that before taking out a patent, he makes an improvement that would place that little wonder to the front of modern inventions; that is, to induce that innocent little mule to kick some, after the fashion of mules. That improved barometer could then be used to determine altitudes, as in mountain climbing and balloon racing. Yours very truly, E. FERRAND.

Detroit, Mich.

THE LABOR QUESTION.

NATIONAL NURSERYMAN:

It now looks as if our retail trade would take up all of our surplus of next spring's offerings. We are in a peculiar position. The help question is in such shape we dare not offer a large stock of extra sized trees and of the best varieties because we do not know after they are sold, if we can get them dug, packed and shipped. It seems to me that what this country needs now more than anything else is competent help to do what business we already have, and I would like to see journals like yours taking up this question of labor supply with the view of getting more of the right kind here in this country. Yours very truly,

NELSON BOGUE.

Batavia, N. Y.

Quiz Column.

HANDLING GRAFTS, BUDDING SCHWEDLER MAPLE AND CUT LEAF BIRCH.

1. Would apple root grafts keep and callous well if they were buried in well drained soil, soon after they were made, below the depth to which frost would reach?
2. Can Schwedlerii Maples readily be grafted or budded in this country? Is it cheaper to buy them than to try to propagate them?
3. Is unusual care required in the budding or grafting of the Cut-leaved Weeping Birch? Can the tree be propagated by layering the branches, if grown where they can be buried?

Indiana. J. L. D.

Answer: We think apple grafts would keep and callous well if they were buried in well drained soil below frost. We usually put ours away in either damp sand or saw dust—there should not be too much moisture in it.

We bud our own Schwedler Maples on Norway—we consider it is cheaper to propagate than it is to buy. We do not grow Cut Leaved Weeping Birch in this locality.

West Chester, Pa. HOOPES, BRO. & THOMAS,

Think there is no question but what root grafts in good, well drained sandy soil would callous all right, and perhaps keep all right, but would be afraid of fungus or rot. It would be easier, cheaper and better to keep them in boxes or barrels in saw-dust in cellar.

Schwedlerii Maples are grown in this country, and in one or two nurseries where conditions are favorable, we think cheaper than they can be imported or bought. As a rule most nurserymen can buy them cheaper than they can grow them, as it is rather difficult to get a good stand.

In budding Cut Leaf Birch a good deal depends upon the weather conditions, but it is rather difficult to get a good stand. Think they could be propagated, as we guess nearly all trees can by layering, but they would be slow to root, and probably would require two seasons before they could be taken off.

Painesville, Ohio. THE STORRS & HARRISON CO.

1. We do not believe apple grafts would callous if buried deep in soil until warm weather in the spring; think it would have an injurious effect to lay so long in the ground as the parts spliced would turn brown. Our plan is to pack them in boxes, in a mixture of fresh sawdust and sand and by planting time in Spring they will have grown together.
2. Schwedlerii Maple can be budded successfully in this country.
3. Cut Leaved Birch are easily and most successfully budded, if budding is done as late in the season as possible before the bark sets. Do not think they can be propagated by layering.

Fonthill, Ont. E. MORRIS.

HEIGHT AT WHICH TO HEAD TREES IN OHIO.

Will you please advise us about what height you would top 2 year apple trees in nursery rows? We wish to trim all of our 2 year block to a whip and then cut the top off. Last year we cut them too high.

We are troubled with oyster scale occasionally on nursery stock as well as trees in orchard. What is best remedy for same?

Thanking you in advance for above information and hoping to receive same soon, we are,

Ohio. M.

Answer: The height that one should head his apple trees ought to be governed in considerable measure by the demands of his trade. In the middle west, there is an unquestioned tendency towards lower heads than formerly. In the east, the same tendency is noted in some degree also, but here orchardists ask for a tree with a higher head than in the west. Three to four feet, we believe, would be a reasonable height for your section. If you have had experience in this line, you are better able to judge how they ought to be headed than we are to advise you. The extreme on one side is from eighteen inches to two feet, while on the other side it ranges from five to seven feet. We should imagine an average between these two would meet your condition as well as any. The necessity of heading at two years, of course, should be avoided as much as possible.

Oyster shell scale can be treated with the same remedies that are used against the San José scale. The most effective time, however, to destroy oyster shell scale is when the breeding season is on during the latter part of June. At that time, whale oil soap used in the proportion of one to five or six gallons of water, is quite effective. Kerosene emulsion is also used, but not so generally.

J. C.

LUTHER BURBANK.

A review of Mr. Burbank's work, by Patrick O'Mara. Pamphlet, 11 pages. This is a brief, pungent review and criticism of Mr. Burbank's methods of plant breeding, together with some of the results he has secured. Mr. O'Mara is not one of those who believes that Burbank is the only plant breeder in the world. He believes that "there are others," and he is for dividing the honors with those who have fairly earned them. No one wants to filch from Mr. Burbank any of the credits to which he is legitimately entitled, but on the other hand many believe with Mr. O'Mara that discredit has been brought upon the entire coterié of plant breeders by the unduly eulogistic tones and methods of Mr. Burbank's biographers. Mr. O'Mara calls attention to the fact that in America as well as Europe, many important productions have been given to the world with no flourish of trumpets whatever; and many men like Bull, the originator of the Concord grape, like Gideon, who produced the Wealthy apple, like Rogers, the author of the valuable hybrid grapes, and like Dorner and Ward, the present day workers, have done and are doing noteworthy work without the widespread advertising and unadulterated adulation which has been lavishly bestowed upon Mr. Burbank. The author of the pamphlet draws attention to the fact that no word of protest has been raised by Mr. Burbank against this avalanche of flattery, though it would seem strange if some of the exaggerated statements which have appeared in books were allowed to reach the public eye without first having been passed upon by the author himself.

The Ornamental Nursery Stock Growers' Association will hold a meeting in New York City, on January 3, in the Murray Hill Hotel, to discuss trade matters and routine business.

Legislation.

UNITED STATES ENTOMOLOGIST DR. L. O. HOWARD ON UNIFORM INSPECTION LAWS.

EDITOR NATIONAL NURSERYMAN:

I have your letter of the 24th instant, relating to the subject of federal control of nursery inspection, interstate commerce in nursery stock, and an inspection and quarantine service covering all imported stock.

The federal inspection of nurseries and the control of interstate commerce in nursery products is a very broad proposition and one that would entail an enormous amount of adjustment in different states in the harmonizing of the very diverse laws and regulations now in force. There can be no question about the great desirability of unifying the nursery inspection laws and interstate commerce regulations of the several states, and I believe that if the state horticultural inspectors and the nurserymen would join heartily in the effort, in course of time the standardizing and unifying of such regulations could be brought about. The putting of the entire machinery in federal hands would mean very large appropriations, and might very easily cause more friction than leaving the work, and particularly nursery inspection, where it naturally belongs—in the hands of state officers. I feel very strongly that we should make some decided effort to lessen the annoyance which nurserymen must have whose business covers many different states, and if the nurserymen would combine to demand a unification of regulations, I imagine that the horticultural inspectors, and state entomologists and others charged with entomological work, could be brought to agree. At present some of them are inclined to oppose such a measure.

On the subject of inspection and quarantine against foreign nursery stock, I have already expressed myself several times very heartily in favor of such restrictions. Quarantine of this kind is distinctly desirable, and must necessarily be under federal control to be at all uniform or effective. The partial quarantine which the State of California has in operation against foreign stock shows what can be done, but in the case of this state it necessarily can have only local application. The establishment of such service at a series of ports of entry designated for the receipt of nursery stock, etc., just as certain ports have been set aside for live stock inspection, would undoubtedly many times repay the horticultural interests of the country any cost which it would entail. The passage, therefore, of some such measure as that recommended by the convention of entomologists, nurserymen and horticulturists held in Washington in March, 1897, would seem to be abundantly justified by the danger (which is a constant one) of importation of important new insect pests.

Yours sincerely,

L. O. HOWARD.

Chief of Bureau of Entomology,
U. S. Dept. of Ag.

The Association of Economic Entomologists passed important resolutions on this question, at their meeting in New York City, Dec. 28-29. These are reported in full on page 19 in this issue.

NATIONAL LEGISLATION TO CONTROL THE SPREAD OF INSECT PESTS.

PROFESSOR SANDERSON.

I am asked for an opinion concerning,

1—The feasibility and desirabilty of the U. S. Dept. of Agriculture undertaking all nursery inspection and thus unifying methods; and

2—The desirability of providing for the inspection of all imported stock.

Although not actively engaged in the inspection of large nurseries as there is but little nursery interest in New Hampshire, the writer has had occasion to make considerable study of these questions during the last two years in connection with a committee of the Association of Economic Entomologists who are considering the question of National Legislation. This subject was introduced by the writer at the last meeting of the Association of Economic Entomologists with a paper upon the National Control of Introduced Insect Pests, which was later published in the Popular Science Monthly of May, 1906, and in Bulletin 60 of the Bureau of Entomology. A committee of the Economic Entomologists has been working upon the different phases of the subject involved, including that of nursery inspection and the inspection of imported stock and the whole matter will have been thoroughly discussed at the annual meeting of the Economic Entomologists at New York, December 28 and 29, by the time this appears in print. A symposium upon the various phases of legislation desirable was prepared for this meeting by some of the leading entomologists of the country and will undoubtedly be partly reported in the NATIONAL NURSERYMAN in its next issue so that a lengthy discussion at the present writing is hardly desirable.

UNIFORM LAWS BY THE SECRETARY OF AGRICULTURE.

In regard to question 1, it seems to me hardly feasible for the Department of Agriculture to undertake all nursery inspection, that is to do the work itself, if by that is meant that it should have a separate corps of inspectors from those now employed in the various states. The inspection must be done quickly at a certain season and it would be difficult to secure a sufficient number of trained men to inspect all the nurseries in the United States in the time at their disposal, except by using the force now employed. Furthermore, this might involve a duplicate inspection in many cases. The inspection by the Department of Agriculture could not prevent state inspection for granting certificates for use inside of the state of origin. A much better plan is that approved at the recent meeting of the Association of Horticultural Inspectors which was approved by the representatives of the Nurserymen's Association, namely, that the Secretary of Agriculture be empowered to make regulations governing the method of inspection and certification of all nursery stock for interstate commerce. This would allow the Secretary of Agriculture to recognize the work done by the various state inspectors now having charge of it, providing that their manner of inspection and certification conformed with the standard made by him. In case the method of inspection was below his standard, the nursery stock of that state would be refused a certificate and could not enter interstate trade except as it was inspected by an agent sent directly by the Department of

Agriculture. This would quickly result in all of the states conforming to the standard made by the Secretary in so far as they had nursery stock for interstate trade. It would preserve the present organization almost entirely and would result in unifying the methods and certificates in a great degree. Gradually the tendency would be for the various states to more and more conform to the standard made by the Secretary of Agriculture. Any national legislation can not prevent any state making such regulations as it may see fit governing the inspection or fumigation of nursery stock after it enters that state, so that the standards of the various states for allowing the importation of nursery stock would not necessarily be altered by such a law but they would undoubtedly gradually tend to conform to it.

II. In regard to the matter of the inspection of importations there can be no question that this should be at once put into the charge of the National Dept. of Agriculture. At the present time there is practically no inspection worthy of the name of importations except possibly in California which state has maintained such a service for a number of years and has been successful in intercepting many insects which might have become serious. It is quite problematical whether such work can be properly carried on by the several states. The health quarantine of our various ports is an analogous matter. This has been partially in charge of the states for some years but has now been put entirely in charge of the Federal Marine Hospital Service at the request of the states most interested. We believe that only the National Dept. of Agriculture can successfully handle the inspection of imported stock. That such stock should be inspected there is no manner of doubt. We might perhaps accept the certificates of some well known European entomologist but even this would be doubtful. Germany accepts no certificates from America. Why should we? There is no question that if such inspection had been practiced in years gone by that there are a considerable number of our worst insect pests which might have been intercepted and there is no question that such insects are still being imported. Witness the Japanese Hag moth recently found in Massachusetts and the brown-tail moth imported into Massachusetts undoubtedly either on rose or pear stock in the winter web, which could be readily seen by even the most inexperienced inspector. Other instances might be cited.

Whether all stock should be inspected at the port of entry or should be allowed to enter under bond and subsequently inspected by local inspection is a matter which will have to be decided upon its merits by the Secretary of Agriculture, possibly after some experience in enforcing such a law, but there can be no question that the inspection most feasible is highly desirable.

There is a third proposition concerning National legislation which although not always of direct interest to the nurserymen frequently becomes equally important with the other two. I refer to the control of insect pests which have already been introduced. Were we to have the inspection of imported stock and perchance were some insect to escape detection by the inspectors and become established in any state in the Union, there is then no means of preventing its rapid multiplication and subsequent spread except under the laws of that state. The National Government could control infested stock at port of entry but as soon as it had become planted or had passed our hands it would then be under the state law. It is to be regretted that in the past the various states have been very slow to appreciate the necessity of legislation to prevent the spread of such imported pests, or have seemed to have any sense of responsibility to the other states to suppress a serious pest which was multiplying within their borders and spreading elsewhere. If the Secretary of Agriculture were given power to proceed to control or exterminate an introduced insect pest which he considered sufficiently dangerous to warrant the expenditure in the same manner as he is now able to proceed against cattle diseases or as the Marine Hospital Service is able to proceed against human diseases, he would be able in many cases to exterminate or control introduced insects before they had spread from one state to another. Only by such federal control does it seem possible to accomplish this. If this is not done a pest which has first been imported into one state will increase and soon the nurserymen of other states will have to contend with it as well as the fruit growers of the whole country.

For instance the case of the San José scale might be cited. Had there been such legislation at the time of its importation into New Jersey or even after it had spread to neighboring nurseries in Maryland, there is probably no question that if it had been persistently attacked by the federal government with sufficient funds that the pest might have been exterminated in the east. State laws were and have been almost entirely inefficient in controlling its spread either in nurseries or orchards.

Also witness the brown-tail moth, a most serious pest introduced into Massachusetts, the danger of which was fully recognized and which could have been entirely controlled with a sufficient appropriation when it was first found, but, the state of Massachusetts refusing to make such appropriation, it has spread over southern New Hampshire and Maine and will ultimately spread over the East as it is impossible now to control it. Had a federal appropriation been available to fight it at once, it undoubtedly could have been controlled.

Enough has possibly been said to show the feasibility of giving the Secretary of Agriculture sufficient authority to control these introduced pests. The subject has been further discussed by me in the papers above referred to which are generally available. In the writer's judgment, two laws should be passed by Congress. One giving the Secretary of Agriculture authority to make regulations governing the inspection and certification of nursery stock for interstate trade and to inspect all importations and to make regulations concerning importations liable to harbor insect pests ; and second a law enabling him to adapt the control of introduced insect pests along the same lines as the law which now gives him authority to proceed against cattle diseases. The aggregate value of the crops of the country are of equal value to those of the animal products. Why should they not receive equal protection from their enemies?

E. Dwight Sanderson.

WANTED: Experiencened, capable man to establish and manage a retail dept. for old established nursery in central Ohio. Must give unquestionable references as to experience, ability, etc. Address "Eligible," % Nat'l Nurseryman.

MEETING OF WESTERN ASSOCIATION OF NURSERYMEN.

A. WILLIS, PRESIDENT, E. J. HOLMAN, SEC'Y-TREAS.

The seventeenth annual meeting of the Western Association of Nurserymen was held at the Coates House, Kansas City, on December 18 and 19. Pres. Youngers in the chair. After the opening business on Tuesday morning, the following persons took part in the program: W. P. Stark spoke on the question of where the line should be drawn in giving wholesale prices to patrons, whether commercial planters should receive the same advantage as the dealer. Uniform standard of grading of nursery stock and a uniform inspection law were discussed by Messrs. Schuette and Hill, respectively. T. E. Griesa discussed the habit of replacing trees. A. Willis, whether a scheme could not be devised for the securing of shingle tow at a reasonable price. Mr. Albertson reported the meeting of the Horticultural Inspectors as given in the December issue of the NATIONAL NURSERYMAN. In speaking on the replacing of trees, Mr. T. E. Griesa said :

Is the habit of replacing trees a bad one, and should it be continued?

I think the habit of replacing trees is an old one, and it is one that is liable to remain with us for some time at least. There are good reasons why it should be abolished, and equally as good reasons why it will be continued.

The principal reason why it should be abolished, is the careless way trees are handled by many of our customers, after they have been delivered in good condition. They are exposed to the sun and wind sometimes for several days before planting, and then only planted in a very indifferent way, then not cultivated only a little. In the late part of the summer there are lots of grass and weeds growing among the trees (they look sick) and the farmers think it would make a good pasture for their hogs and young stock, so they are turned into the lot to save the grass, and when winter sets in the trees are all dead, and when our representative calls he is told that the trees were dead when received, and he wants them replaced or he will give some other nursery his business. The agent consents to replace the trees, sometimes at half price, but more often free. Such examples are of very frequent occurrence. Many times the trees have been delayed by the railroad and are somewhat damaged, or the delivery agent is careless and exposes the trees unnecessarily, and with the best of care the customers lose some of their stock. Many times it is an advantage to be able to replace a small amount, as it gives the agent a nucleus to build up a good order, where if there had been nothing to replace he could not have done so.

If trees are not to be replaced free in the future it would be necessary for all dealers and nurserymen to enter a combination or agreement to this effect, but I presume the effect would be about the same as most all other propositions that have come up before the fraternity that it would never be effective.

A block of apples in Mr. Kennedy's nursery.

Business Movements.

FRUIT GROWING COMPANIES.

The Grande Ronde Valley Fruit Company was incorporated in Provo, Utah, on December 3rd, with a capital of $500,000. The incorporators expect to engage in fruit growing and to purchase and handle fruit. The directors are O. B. Suhr, J. J. Nunn, W. S. Biersach, A. L. Woodhouse and F. F. Steigmeyer.

PORTO RICAN COMPANY FORMED.

The Standard Fruit Company of Porto Rico was organized at New Castle, Pa., with a capital of $150,000, and with the object of engaging in fruit growing in Porto Rico. Officers: President, James Y. Patton; vice-president, Geo. W. Moody; secretary, Willis E. Spaulding.

SHADY HILL NURSERY CO.

Notice is hereby given that Mr. Edward L. Beard has no authority to buy or sell for this company or collect money on its account.

By order of the Board of Directors.

SHADY HILL NURSERY CO.,
HEBER H. CLEWLEY,
Prest.

Bedford, Mass., Dec. 17, 1906.

The autumn has been an unusually busy one with us, and we are still digging, shipping and planting, and it looks as if the only thing that will stop our operations is a hard freeze-up.

FRANKLIN DAVIS NURSERY CO.
Baltimore.

NATIONAL NURSERYMAN FURNISHES ACCURATE INFORMATION.

EDITOR OF THE NATIONAL NURSERYMAN.

Dear Sir:—Please accept my hearty thanks for your kind, clear and complete answer to my recent letter of inquiry. The enclosed stamp is to repay the postage of your letter.

Very truly,

Indiana. J. L. D.

A PROMINENT DANSVILLE NURSERYMAN OPENS IN GENESEO.

The valley region about Dansville has long been noted as a section producing a desirable type of nursery trees in large quantity. Although the business in this region has not been established for a great many years, yet its development has been exceedingly rapid. Among the men who have made a place for themselves in the trade by the quality of the stock grown is Mr. James M. Kennedy, the proprietor of the Ewart Homestead on the Groveland Road, about fifteen miles southeast of the village of Dansville. The nursery is situated between the Genesee River and Conesus Lake and is admirably situated for shipping either by Erie Railway or D. L. & W. Railway from Mt. Morris. The accompanying cut illustrates in a small way the fine quality of the stock grown on the nursery tract which Mr. Kennedy cultivates. On an area of about thirty acres, he is growing some 400,000 trees. These are handled in the most approved and up-to-date fashion, so that the finished product is a satisfaction to the planter as well as a credit to the grower.

The Western Association of Nurserymen appointed a committee composed of A. L. Brooke, Ralph Lake, Herbert Chase, F. H. Stannard and J. W. Schuette to consider standard for the grading o nursery stock.

PACIFIC COAST NURSERYMEN.

INSPECTION AND INTERSTATE SHIPMENT DISCUSSED.

This organization met in conjunction with the Fruit Growers of California at Hanford, on December 4-5-6. The meeting was most successful. The president of the Association, Elwood Cooper, speaking of the problems before the fruit grower, mentioned pear blight as being very serious, but the most difficult matter confronting the grower of fruit was the labor problem. More workers are needed. Mr. Cooper described the efforts of the California Board of Horticulture in the cultivation of parasites for orchard insect pests, and spoke in sanguine tones of the probability of controlling the principal enemies of California fruits by this means.

The Pacific Coast nurserymen occupied the second day. An address was given by Pres. F. W. Power. The benefits to be derived from membership in the Pacific Coast Nurserymen's Association was discussed by S. A. Miller; nursery business of California by Leonard Coates, which will appear in a later issue of the NATIONAL NURSERYMAN; fruit varieties, by Prof. Wickson; what fruit growers and inspectors expect from nurserymen, by H. P. Stabler; need of uniform inspection laws, A. Eckert; the relation of nurserymen to growers, by A. N. Judd, root stocks in planting, A. D. Bishop; barring out suspected stock, S. A. Pease; and an interesting paper on the inspection laws of California by George C. Roeding.

GEORGE C. ROEDING CRITICISES COUNTY ORDINANCES THAT HAMPER LOCAL DEALERS IN CALIFORNIA.

Mr. Roeding spoke in part as follows:

The nurserymen of California are dependent almost entirely for the sale of their stock in this state. This condition of affairs has been largely brought about by the fact that the varieties of nursery stock grown here are not in demand in other states, so that our business is very much restricted. Furthermore, our climatic conditions, due largely to our long, dry summers, make the growing of nursery stock very much more expensive than in many of the Eastern and Middle West states. With this condition of affairs confronting us, no large nursery can expect to exist unless it is allowed to carry on its business throughout the length and breadth of the state. The large Eastern nurseries have a wide field at their command, and much of their stock is sold at wholesale to dealers and smaller nurserymen who are the mediums through whom the stock is distributed to the planter. In California, the nurseryman, whether he be a small or large grower, sells most of his stock direct to the planter, with the only difference that the former has very little business outside of his own county, while the latter, on account of growing a larger variety, must necessarily have an outlet in other counties or his business cannot exist. It will be readily understood that a man who has been engaged in the business a number of years, and who, through close application, has acquired an extensive trade, chafes under the many local restrictions under which he is placed in selling his own stock.

Strange as it may seem, nevertheless it is a fact, that, under the present condition of affairs there are less difficulties in bringing stock into California from outside states than there is in shipping nursery stock from one county to another. We have already enough pests without taking the chances of introducing new ones from outside sources. I do not wish to be understood as intimating in any way that nursery stock from other sections is diseased, neither do I wish to go on record as objecting to the importing of trees from outside sources as long as we have a reasonable assurance that such trees are from a district where no contagious diseases exist. As an illustration of how much more easily it is to ship trees in from outside sources, I will merely refer to last season when thousands of peach trees were imported into California from the Eastern and Middle states, and were admitted in most cases without restrictions, provided they were found to be free of pests. Peach yellows, peach rosette, and other dangerous, contagious diseases are liable to be introduced by allowing such stock to come into California, simply because it is impossible to trace its origin. Is it right or just, when stock from outside sources is brought in without any apparent restriction, to enforce ordinances which arbitrarily prohibit the introduction of stock without inspection? This comparison is made for the purpose of showing how much more difficult it is for a nurseryman to conduct business in his own state than it is for those whose interests are not so closely united. As a class, nurserymen have much to contend with, and although it is difficult to enact laws, except for the purpose of doing the most good for the greatest number, it should always be borne in mind that the nursery business is a legitimate calling, and it should be regarded as such by our inspectors.

Professor M. B. Waite made a report on the progress of the campaign against pear blight.

The convention closed with resolutions referring to the taxation of fruit property; favoring a modification of Chinese exclusion laws; against free seeds; and favoring legislation governing the control of insects. F. W. Power was elected president of the Pacific Coast Nurserymen's Association, and C. A. Tonneson, secretary.

NEW JERSEY STATE HORTICULTURAL SOCIETY.

The thirty-second annual meeting of this society will he held at the State House, Trenton, January third and fourth. Prizes are offered for collections of apples, pears, dried fruit, canned fruit, roses, violets and carnations. Committees on fruits, flowers, vegetables and legislation will report. The subject of higher education in horticulture will be discussed by Prof. Craig of Cornell; the growing of cranberries by Edmund Braddock, New Jersey; apples by Gabriel Hiester, Harrisburg, Pa.; cold storage by the superintendent of the Reading Terminal Market, Philadelphia: and various other timely subjects are placed upon the program. Secretary, Mary W. Budd, Mount Holley, N. J.

SCHEDULE OF MEETINGS.

New York State Fruit Growers, Penn Yan	Jan. 2, 3
New Jersey Horticultural Society, Trenton	Jan. 3, 4
Peninsula Horticultural Society, Dover, Del	Jan. 8, 10
Oregon, Portland	Jan. 8, 10
Arkansas, Clarksville	Jan. 15, 18
Rhode Island, Providence	Jan. 16
Pennsylvania Association, Harrisburg	Jan. 16, 17
Northwest Fruit, Seattle, Wash	Jan. 16, 18
Montana, Kalispell	Jan. 16, 18
West Virginia, Charleston	Jan. 17, 19
Western New York, Rochester	Jan. 23, 24
Eastern Nurserymen, Rochester, N. Y.	Jan. 25 (?)
Southern Florists, New Orleans	Feb. —
Wisconsin, Madison	Feb. 5, 7

SOUTH GEORGIA PECAN COMPANY.

A company for the development of pecan lands was recently incorporated under the laws of Georgia with headquarters at De Witt.

The incorporators are John Craig, Ithaca, New York; Herbert C. White, De Witt, Georgia; Frank B. Taylor and James M. Patterson, Chicago. Capital stock twenty-five thousand dollars. The officers of the company are John Craig, President, J. M. Patterson, Treasurer, Frank B. Taylor, Secretary, Herbert C. White, Horticulturist and Field Superintendent. The company has acquired an extensive tract of land in South Georgia which will be planted with grafted pecans and sold in small blocks to individual purchasers. The company cares for the property until the trees come into bearing and afterwards if desired.

ASSOCIATION AFFAIRS.

LEGISLATION.

ECONOMIC ENTOMOLOGISTS FAVOR FEDERAL INSPECTION OF IMPORTED NURSERY STOCK AND FEDERAL OVERSIGHT OF STATE NURSERY INSPECTION.—IMPORTANT RESOLUTIONS.

There are two important entomological bodies of national character in the United States which have to do with affairs affecting the nurserymen. These are the Association of Economic Entomologists, composed of agricultural college and experiment stations officers, and the Association of Horticultural Inspectors. The latter met at Baton Rouge, La., and passed resolutions reported in last month's issue of the NATIONAL NURSERYMAN. The former met at Columbia University, Dec. 28-29 and considered the action of the inspectors with regard to the control of insect pests and passed the resolutions which are given below.

To the Association of Economic Entomologists:

Your committee appointed at the last meeting of the Association, to consider the National Control of Introduced Insect Pests, beg to report as follows:

After preliminary correspondence the committee seemed to be generally agreed except upon the matter of uniformity of nursery inspection. A sub-committee of Messrs. Burgess, Forbes and Gillette were therefore appointed to consider this matter. This sub-committee met at Urbana, and after having had a large correspondence with inspection officials throughout the country, formulated a report which was presented to the full committee at a meeting of the committee held at Baton Rouge, La., Nov. 14. This report is embodied in section C below. As instructed by the Association at our meeting at Baton Rouge, your committee conferred with a similar committee of the Association of Horticultural Inspectors who were represented by Messrs. R. I. Smith of Georgia and S. A. Forbes of Illinois, and with representatives of the National Nurserymen's Association, Messrs. Waters of Iowa and Albertson of Indiana. All present agreed upon the line of procedure outlined below. At the meeting of the Association of Horticultural Inspectors at Baton Rouge they adopted resolutions similar to those below, advocating that the Secretary of Agriculture be empowered to inspect all the imports for insects and plant diseases, and that he be empowered to make regulations governing the certification and inspection of nursery stock for interstate commerce, and appointed their chairman, Dr. S. A. Forbes, to act as a member of a committee to be also composed of a representative of the Association of Economic Entomologists and the National Nurserymen's Association to push this legislation.

The committee would therefore suggest the following resolutions and precedure toward securing such legislation:

A. Resolved that the Secretary of Agriculture should be empowered to inspect all imports and to make regulations governing importations liable to harbor insect pests and plant diseases, and that sufficient appropriation be made for this purpose.

B. That Congress authorize the Secretary of Agriculture to proceed to exterminate or control imported insects or plant diseases or any insect previously native to a restricted locality but which may become migratory and threaten the whole country, wherever in his judgment such action is practicable, and that an appropriation be made for this purpose as a reserve fund for emergency use against any such pest which may arise. Such legislation would give the Secretary of Agriculture similar authority against plant enemies as now exists for procedure against animal diseased by the Bureau of Animal Industry.

C. 1—That the Congress of the United States be asked to enact a law empowering the Secretary of Agriculture to make such regulations as may be deemed necessary in order to secure uniform methods of nursery inspection and certification of all nursery stock which passes into interstate commerce.

2—That all state or territorial officials in charge of nursery inspection be urged to accept these certificates at their face value and that in states where laws are now in force which will not allow the acceptance of such certificates, that the inspection department be requested to endeavor to secure such state legislation as will make this possible.

3. That each state should make and enforce such regulations as its local authorities my deem necessary, but that they be made as similar to those of the U. S. Department of Agriculture as practicable.

D. Your committee suggests that the Association elect a representative to form a committee with a representative of the Association of Horticultural Inspectors and a representative of the American Nurserymen's Association to push this legislation before Congress as in the judgment of your committee this is the best method available for securing its passage. We would also suggest that topic A and C above be combined in one proposed law, and that topic B, involving the control of introduced species, be embodied in another law, and that if the passage of both measures be impracticable that efforts be concentrated upon the law involving the inspection of importations and the control of nursery stock for interstate trade and that the other measure be pushed later.

Respectfully submitted,

F. D. SANDERSON,
C. P. GILLETTE,
H. A. MORGAN,
A. F. BURGESS,
S. A. FORBES.

Mr. Albertson assured the meeting of the interest of the nurserymen in this movement and hoped that it would work out satisfactorily.

Mr. Craig thought the principle embodied in the resolutions was sound. He believed in the national control of imported nursery stock. This obviously could not be inspected at the port of entry, but inspectors should be provided at the nursery centers for this purpose. The federal inspection of stock for interstate shipment looked like a large undertaking but he believed the time was not far distant when a federal certificate would be accepted by all states.

The whole matter will be presented to the American Association at the Detroit meeting, in the mean time persons interested are invited to discuss the matter in these columns. The American Association of Nurserymen was represented by President Orlando Harrison, Mr. Emory Albertson traffic manager and Mr. J. Craig of the special committee on uni-

form tag. The delegates were given the courtesy of the floor.

Mr. Harrison said in part: The first object of the nurseryman is to grow worthy stock. Only in this way can he continue in business. The nurseryman appreciates the assistance of the trained entomologist. He is delighted to co-operate with him. The business of the nurseryman is very much hampered at present by the varying requirements proposed by entomological authorities of different states and enforced by state authority. If the resolutions offered will tend towards bringing about greater simplicity and uniformity he was in favor of them. If this would add complexity then the nurserymen of the country would oppose them.

BARBER-FRINK CO.

TURKEY CREEK NURSERIES, MACCLENNY, FLA.

We are glad to present our readers with the following interesting item from Mr. Aubrey Frink, former secretary of the Glen St. Mary Nurseries. Mr. Frink says:

Recently, I purchased half interest in the Turkey Creek Nurseries, and Mr. Barber and I will incorporate under the firm name of The Barber-Frink Co., at an early date. Mr. Barber has been running the Turkey Creek Nurseries for about nine years and will have charge of the outside part of the business, while I shall look after the office end. We have 260 acres of fine land, ample office room, and a good force of competent men. We expect soon to erect packing houses and waterworks for the present facilities in this direction are cramped.

We carry a large line of budded and seedling pecans, also a general line of peach, pear, plum, orange and other fruit trees, roses, shade trees and ornamentals. I am mailing you one of our catalogues to-day, under separate cover.

Mr. Frink is also to be congratulated on having recently forsaken the ways of the bachelor. He was married to Miss Pearl Knight of Macclenny late in October. The NATIONAL NURSERYMAN extends best wishes for success in business and happiness in the domestic circle.

NATIONAL RETAIL NURSERYMEN'S ASSOCIATION FOURTH ANNUAL BANQUET.

This year the banquet will be held on the evening of January 22nd, 1907. The arrangements are in the hands of that untiring and competent committee, B. Frank Allen (chairman), Walter W. Wyman and E. S. Osborn. President Pitkin is fully satisfied that the committee will do themselves proud again this year.

A general invitation is extended to all nurserymen, and if by oversight any should fail to receive a postal invitation, they will please regard this notice as such.

Kindly notify Chairman Allen by the 18th of your intention to be present and the number of plates you wish to reserve.

ALABAMA STATE HORTICULTURAL SOCIETY.

MONTGOMERY, FEBRUARY 6-7, 1907.

The fourth annual meeting will be held on the above dates. New Exchange Hotel. Program later.

The ALABAMA LIVESTOCK ASSOCIATION will meet immediately after. All persons interested in Alabama agriculture should attend these meetings.

Please pass the word to your neighbors.

R. S. MACKINTOSH, *Secretary.* Auburn. W. F. HEIKES, *President.* Huntsville.

E. Albertson, Special Representative of the American Association of Nurserymen, stopped at Rochester last of December, on his way to New York to attend the meeting of Economic Entomologists.

Mr. J. H. Dayton and Mr. Robert George, of the firm of Storrs & Harrison Co., Painesville, Ohio, called at the business office of the NATIONAL NURSERYMAN during the last days of December.

PARKS FOR MONROE COUNTY.

It is noted in a recent issue of the *Democrat and Chronicle* that the city of Rochester has recently received an important donation in the form of a tract of land along Lake Ontario. This land is said to be pleasantly situated and of considerable immediate and great potential value. The property was given to the city by H. C. Durand, and consists of about five hundred acres on the shores of Lake Ontario near Windsor Beach. This gift draws attention to the recent movement in constructing a system of parks in the County of Essex, New Jersey, the story of which is interestingly told in the recent volume entitled "County Park Systems," written by Frederick W. Kelsey, formerly of Monroe County, New York. It is to be hoped that the city of Rochester will make the most of her opportunities in this connection.

Why spend another winter in the cold north? Horace Greeley once said, "Go West, young man, Go West," If that statesman were living to-day he would surely say. "Go South. All eyes are turned to the south, emigration has set in, prosperity has dawned upon the southern states, old prejudices are vanished, many sections, especially South Georgia, are becoming northernized. Colonies of northern folks are taking advantage of the fine climate, the unoccupied lands. One of the most successful colonies ever formed is the one known as the 1906 colony, which is settling up the land near Folkston, Ga. This colony company sells lands so cheap, giving such liberal terms, provides free fuel and free building lots, assures work, that no honest man need go long without a home of his own, many settlers have taken advantage of their offers, nearly every state in the Union is represented. For home seekers' rates and rates on household goods, and any other information address the 1906 Colony Company, Folkston, Ga., C. W. Waughtel, Mgr.

WOOD LABELS
FOR NURSERYMEN AND FLORISTS
SAMPLES AND PRICES FOR THE ASKING.
DAYTON FRUIT TREE LABEL CO.
SOUTH CANAL STREET, DAYTON, O.

WE HAVE TO OFFER
500 Bushels of Peach Pits
This year's stock. Order early. Write for prices.
W. R. ROACH CO. Inc., Hart, Mich.

CONRAD APPEL,
Established 1789. DARMSTADT, GERMANY.
FOREST AND AGRICULTURAL SEED ESTABLISHMENTS
Extensive Desiccating Establishments for Forest Tree Seeds.
SPECIALTIES:
High Grade Forest Tree Seeds, such as Scotch Fir, Spruce, Larch, etc. Acacia, Sycamore, Maple Adlers, Honey Locust, Elm, etc. Grass, Clover and Agricultural Seeds.
Grass Seed Mixtures for Lawns and Meadows. Purveyor of guaranteed pure seeds, true to name and really of new crop, with highest obtainable purity and growth, tested by the leading Seed Testing Laboratories at Zurich, Washington, etc.
MANY HIGHEST AWARDS. GRAND PRIZE MILAMO, 1906.
When writing to Advertisers mention The National Nurseryman.

125,000 **"Palmetto"** ASPARAGUS PLANTS three years old. Strong, first-class roots in every respect. Will sell cheap as they are on ground that must be cleared next spring.

NO CHARGE FOR PACKING.

D. C. RUPP, Shiremanstown, Pa.

The Largest Stock of *For Fall, 1907*

CURRANTS and

GOOSEBERRIES,

Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

I Offer for Spring 1907 **Choice Nursery Stock**

Cherry, 2 years, ¾ and up, E. Richmond, Dyehouse, Mt. Morency, Black Tartarian and Windsor.
Standard Pears, 2 years, all grades, Bartlett, Kieffer, Seckel, Clapps and Duchess D'Ango.
Dwarf Pear, 2 years, all grades, Bartlett, Duchess.
Quinces, 2 years, all grades, Bourgart, Champion and Angers.
Plum on Plum, all grades, European and Japans, General List Varieties.
Also one year Standard and Dwarf Quince, Pear, Cherry, Plum and Apple.

JAMES M. KENNEDY, Dansville, N. Y.

WANTED.

Experienced Nurseryman

Capable of taking charge of growing and packing grounds of second largest nursery in the west, located in the famous Yakima Valley. Permanent employment at good wages to right man. Address with nurserymen references, or recommendations,

WASHINGTON NURSERY COMPANY,
TOPPENISH, WASHINGTON.

W. T. HOOD & CO.

Old Dominion Nurseries,

Richmond, Va.

OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Keiffer especially.

Natural Peach Pits, Crop 1906.

Write for prices.

MAHALEB BY THE MILLION

Grown by us annually; our ground and location being especially adapted to producing THE BEST CHERRY STOCKS as testified to BY LARGEST CHERRY GROWERS.

Huntsville Wholesale Nurseries.

Gentlemen: Huntsville, Ala., 10-22-06.

The Mahalebs bought of you came through in fine condition, and were planted last spring and budded the past summer. We got a good stand of plants and buds. They are equally as good in every way as the imported plants. I congratulate you upon your remarkable success in growing Mahalebs.

Very truly,

HUNTSVILLE WHOLESALE NURSERIES,

W. F. HEIKES, Manager.

Knox Nurseries.

Dear Sirs: Vincennes, Indiana, Nov. 12, 1906.

We planted some Kansas Mahaleb three years ago which produced better one year Cherries than imported stocks on same ground. They were graded extra well and came in first class condition and were all that we could desire. These have made a splendid growth and the buds have taken well and we expect a fine block of one year Cherry from them. We trust you will grade the 200,000 we have coming from you this winter equally as well, as we like a good strong grade.

With best wishes for your success, we remain, Yours truly,

H. M. SIMPSON & SONS.

F. W. Meneray Crescent Nursery Co.

Gentlemen: Council Bluffs, Iowa, Nov. 14, 1906.

The Mahaleb stocks which we purchased of you in the spring of 1904 were planted by us for a test as to which were really the best stocks to use American grown or foreign grown. In the fall of 1905 we found that our American stocks gave us by far the heaviest and most robust trees, giving us fully one-third of our one year old Cherry ¾ and up, and standing in height from 4½ to 6 feet. We also have quite a number of ¾ trees in the imported stocks, but only a small per cent.; most of them catching the 11-16 grade. This fall, 1906, the trees being two years old, we found nothing on the American stocks falling below ¾ grade, and the root system can not be better.

With these results before us with the American Stocks, is why we placed an order with you for 150,000 for delivery next spring.

Very truly, F. W. MENERAY.

Vincennes Nurseries.

Dear Sirs: Vincennes, Ind., Oct. 29, 1906.

We have been watching for several years, the Mahaleb you have been growing, and think there is no question but what they are equally as good, and in fact superior to the foreign grown stock. Had this not been the case we would not have placed an order with you for 200,000 for the coming season's planting.

We are growing Cherry in large quantity and of course it is very important that you have good stock to start with, and from what I have noticed of your home grown stock, they are usually of a heavier and stronger grade than the imported seedlings.

I am, yours truly, W. C. REED.

BLACK LOCUST SEEDLINGS OF ALL GRADES BY THE CAR LOAD.

70,000 Imported French Pear Stocks. **30,000 Imported Anger Quince Stocks.**

Maryabolan Stocks with orders for other stocks only. **Two Year Grafted Apple ¾ inch and up.**

Bargain Prices on Shade Trees in Car Load Lots. Soft Maple, Elm, Catalpa, Black Locust, Sycamore and Box Elder. Growing on leased ground that must be cleared this spring.

WINFIELD NURSERIES.

COOPER & MONCRIEF, Props.
Office: Winfield, Kansas.

Branch Plants: Wellington, Kansas, Rock, Kansas.

WINFIELD, KANSAS.

Greensboro Nurseries

Greensboro, N. C.

JOHN A. YOUNG,
Owner and Proprietor

The I. N. Brown Box Clamp.

LET ONE MAN DO THE WORK OF TWO.
Try One.

ENDORSED BY LEADING NURSERYMEN.
WRITE FOR PRICES AND CIRCULAR.

Manufactured and for sale by I. N. BROWN, Atlantic, Iowa.

The Cureton Nurseries

Offer surplus APPLE, PEAR, CHERRY, PLUM, QUINCE, MULBERRY, FIGS, SEEDLING PAPER SHELL PECANS, BUDDED PECANS, ENGLISH AND BLACK WALNUT, SCUPPERNONG, JAMES GRAPES, SMALL FRUIT PLANTS, MAGNOLIA, GRANDIFLORA, CAROLINA POPLAR, CATALPA, ARBORVITAES, PINES, HOLLY, OAK, ASH, SWEET GUM, IRON WOOD, SASSAFRAS, TULIP, RHODODENDRONS, SUGAR MAPLES.

A few thousand June Bud Peach Trees.
Send for list of varieties and prices to

James Cureton, Prop., Austell, Cobb Co., Ga.

KNOX NURSERIES

CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
Vincennes, Indiana.

FOR SALE

One-third Interest in the Fonthill (Canada) Nurseries.

Our Mr. Morris wishes to retire through ill health and old age. These Nurseries comprise eight hundred acres and are thoroughly up to date; cellars, packing houses, etc., on grounds. Business a flourishing one and prospects for the future better than ever. Fifteen to twenty thousand dollars cash down, and balance on security for any reasonable length of time. This is a grand chance for a practical nurseryman. Address, for particulars,

STONE & WELLINGTON, Toronto, Ontario.

RHODES DOUBLE CUT PRUNING SHEAR

PAT.

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

RHODES MFG. CO.
"Dept.7" GRAND RAPIDS, MICH.

TREE-BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS
WAUSAU, WIS.

GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

For Fall or Next Spring

A full assortment of **Americana, Chickasaw** and **Japan Plum,** two and one year.

One and two year Pear, Cherry, and Quince.

Carmen, ELBERTA and **Greensboro June Buds,** all grades including **3=4 ft.** and **4=5 ft.**

Mulberries, Magnolia Grandiflora, California Privet and **Prairie Roses.**

Altheas and **Dwarf Box** for transplanting.

We will commence budding Plum on Marianna, August 15th, and would like to figure with you for any number Plum one year Fall 1907.

THE FRASER NURSERY,

HUNTSVILLE, ALABAMA.

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD=DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

FOR SALE CHEAP

5000 Leading Varieties Peach.

Fall or Spring delivery. All straight and free from disease.

C. J. McCORMICK.

Monroe, Mich.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

Wanted

at once an experienced office man to take charge of staff of salesmen selling nursery stock. One who will keep business increasing. Steady position. Good opportunity for advancement. Address,

B. A. MITCHELL, No. 309 Ferguson Bldg., Detroit, Mich.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

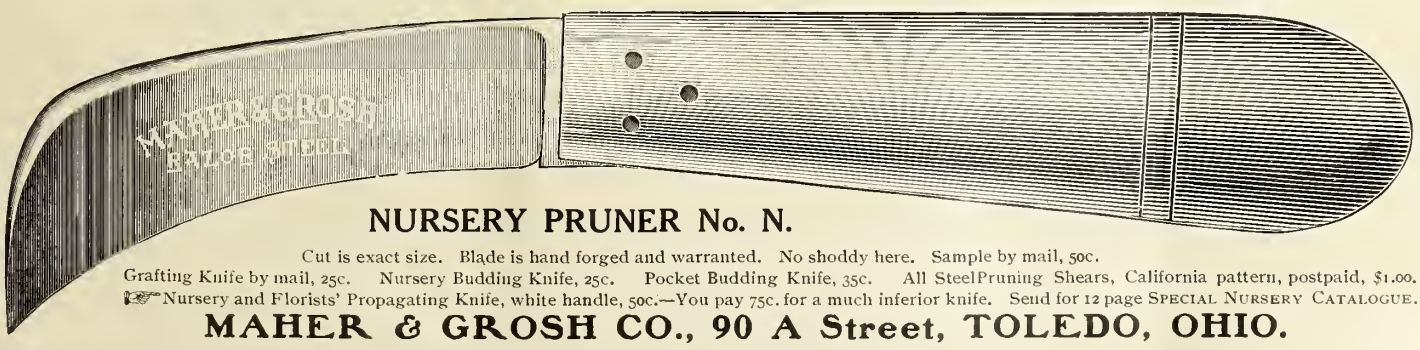
Geo. E. Dickinson, 1 Broadway, N. Y.

WHOLESALE GROWER OF

PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.



NURSERY PRUNER No. N.

Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c.

Grafting Knife by mail, 25c. Nursery Budding Knife, 25c. Pocket Budding Knife, 35c. All SteelPruning Shears, California pattern, postpaid, $1.00.

☞Nursery and Florists' Propagating Knife, white handle, 50c.—You pay 75c. for a much inferior knife. Send for 12 page SPECIAL NURSERY CATALOGUE.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

ROSES

On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Fall, Giant Flowering and Bronze leaf varieties.

SHRUBBERY.

Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.

Spireas, Van Houtte, A. Wateres, Frobeli, Blue.

Deutzias, Gracilis, Gracilis Rosea, Lemoini.

Altheas, Jeannie D. Arc, Banner, Dble. Red and Purple.

Berberry, Thursbergi all sizes up to 3 ft.

California Privet, 3 ft. up to 6 ft.

Honeysuckles, Heckratti, very fine, Golden, Haliana, Red Coral.

Weigelas Rosea, Rosea Variagata, Floribunda, Candida.

Hibiscus Crimson Eye.

THE CONRAD & JONES CO.

WEST GROVE, PA.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

BLACK LOCUST

By the Millions. They HAVE to go.

You know what that means.

CALBRAITH NURSERIES

DE WITT HANSEN, Manager, Fairbury, Neb.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

offer for SPRING, 1907

One of the most complete lines of

Fruit, Shade and Ornamental Trees,

Shrubs, Roses, Perennials,

Seedlings and Tree Seeds

to be found South of the Ohio River.

Special prices on the following: BLACK LOCUST SEEDLINGS, HYDRANGEAS, SNOWBALLS, LILACS, SPIREAS, BERBERRIS, and many other Shrubs, AMERICAN LINDEN, ELMS, MAPLES, ASH, SYCAMORES and TULIP TREES. Trade-lists ready in September.

THE DONALDSON CO., Warsaw, Kentucky.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of

FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multillora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

FRITSCH & BECKER,

SEED MERCHANTS,

Grosstabarz, Germany.

Exporters of European Forest Trees and Fruit Tree Seeds.

Specialties: Black and Honey Locust, Mulberry, Dog Rose, Apple, Pear, Wild Cherry, Mahaleb Cherry, Plum, Quince and other seeds.

Importers of American Forest Trees Seeds.

Correspondence Solicited.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

EVERGREENS

Small Transplanted Stock.

Best Goods at Best Prices.

OLD RELIABLE EVERGREEN NURSERIES,

C. L. WHITNEY, Prop. WARREN, OHIO.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

WHEELOCK & CLARK,

FREDONIA, N. Y.

Grape Vines and Currant Plants

A SPECIALTY.

CORRESPONDENCE SOLICITED.

---

101 best sorts **ROSES** Send your list.

H. P.: Beauty, Colomb, Diesbach, Christy, Clio, Alps, Dinsmore, Druschki, Jack, Jubilee, Masson, Plantier, Charta, Laing, Neyron, Lambelin, Caprice. **Ch:** Queen's Scarlet. **H. B.:** Gruss an Teplitz. **H. Pol.:** Clo Soupert. **H. T.:** A. Rivoire, B. Brown, Et. de France, Helene Cambier, Gould, Kaiserin A. V., Killarney, La Detroit, Battersea, P & W. La France, Chatenay, Testout, Meteor, Richmond, Carnot. **B.:** Hermosa, Mrs De Graw, Malmaison. **H. C. & R.:** Baby, Cr., Phil'a, P., W. & Y. Ramblers, B Belle, Car. Goodrich, D. Perkins, P. Queen, R. Cottage, Seven Sisters, Tenn. Belle. **Tr.:** Wichuraiana. **T.:** Bridesmaid, Devoniensis, Brabant, Et. de Lyon, G. Gate, Ivory, Md. de Vatry, Md Lambard, Krueger, P. & W. Cochet, M. Guillot, M. Van Houtte, Gontier, Perle, Sanfrano, Sunrise, The Bride, and many others. **N.:** Cl. C Soupert, Cl. Devoniensis, Cl. Meteor. Cloth of Gold, Emp of China, Lamarque, M. Niel, M. Washington, Mrs R. Peary., R. M. Henriette, Solfaterre, W. A. Richardson.

On own roots. THE LEEDLE FLORAL COMPANY SPRINGFIELD·OHIO· 2½ and 4 inch

---

REGRADING

has kept us busy all fall. Every tree in our storage is above criticism Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Crafted,

CHERRY, PLUM, PEACH,

Standard and Dwarf **PEAR, QUINCE,** ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

A LOT OF VERY FINE APPLE TREES

for the Wholesale Trade. Also some fine Apple Scions.

EAST TENNESSEE NURSERY CO.

R. F. D. No. 2. Clinton, Tenn.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,

WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

WANTED

PRACTICAL OUTDOOR NURSERY FOREMAN. Good opportunity for right party. Address with references, giving experience, and salary expected.

W. T. HOOD & CO., Richmond, Va.

Martin's September Peach

I have the best thing ever introduced in the way of a late peach, and want to get them scattered all over the country, therefore I will sell only 100 trees to any one person. Write for description and prices at once. Supply of trees limited. Address,

THE CURETON NURSERIES, Austell, Ga.

JAMES CURETON, Prop.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.

133 READE ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PAN-HANDLE NURSERIES,

GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

J. K. HENBY & SON.

June Buds for Cash

I offer (100,000) one hundred thousand June budded peach trees. Half Elberta 1 to 1½ ft., 1½ to 2 ft., 2 to 3 feet grades at an exceptionally low figure FOR CASH. Write to-day. This is a BARGAIN for somebody. Address

JAMES CURETON, Proprietor
THE CURETON NURSERIES, Austell, Cobb Co., Ga.

Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
HONEY LOCUST 8-10 inch grades.
HARDY CATALPA 8-12, 12-18, 18-24 and 24-36 inch grades.
RUSS. MULBERRY 8-12, 12-18, 18 24 inch, 2-3 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right ; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. **Beatrice, Neb.**

Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

BEDDING PLANTS. New varieties of Geraniums ; one of our great specialties in this line are Double Petunias for which our strain is well known. Hardy Shrubs, Rhododendrons, Azaleas, Roses, Hardy Climbers.

All fully described in our Wholesale List issued quarterly, and mailed free to the trade only. If you do not receive this catalogue regularly, please advise us.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

WEST CHESTER, PA.

OFFER FOR THE FALL OF 1906

a large assortment of Ornamental Trees and Shrubs, especially fine stock of PIN and RED OAKS, all sizes.

Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

SEND US YOUR LIST OF SHORTS.

Established 1853.

Philadelphia Office,
222-3-4-5 Stephen Girard Building.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

IMPORT NURSERY STOCK

We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Paeonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

PEACH SEED

We have still on hand a limited quantity of Virginia Natural and other grades of Peach Seed. Send for Catalog.

P. O. Box 451.
Established 1859.

W. W. WITTMAN & CO.
117 Hanover St., BALTIMORE, Md.

W. FROMOW & SONS, Windlesham, England.

Offer large and thoroughly high class stock of the following: Roses; Rhododendrons, hardy hybrids in sorts, and Ponticum; Golden Privet; Holly green and variegated; Bamboos in sorts; Berberis; Box-Handsworth; Laurels; Lilacs; Limes; Acacia Bessoniana; Althea frutex in sorts; Aucuba; Kalmia; Osmanthus; Olearia; Thorns; Yews; Cupressus; Picea Nobilis and Nordmaniana; Retinospora; Thuya; Thuyopsis, etc. For trade list apply to our American Agents,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF

NURSERY and FLORISTS' STOCK

IN THE UNITED STATES, INCLUDING **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

Field Grown Hardy Roses

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

Eugene Furst Rose.

A Few of the Items We Have in Large Supply

SPECIAL PRICES ON EARLY ORDERS. Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata, Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. ¶ Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

51 Years **1200 Acres** **44 Greenhouses**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose Frau Druschki, mailed **FREE** on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. **Rochester, N. Y.**

The Geneva Nursery

Established in 1846

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.,
GENEVA, NEW YORK

When writing to Advertisers mention The National Nurseryman.

ROSES

Largest and completest assortment in the country; nearly all the leading standard and scarcer varieties can still be supplied in *either own-root or budded* plants, as may be preferred; and all are of our own growing. We do not handle the soft, pithy, imported roses; those who know, insist on having the "J. & P." roses —the kind that live and grow and "*make good.*"

We grow other stock, too, in general assortment, with particular attention to *Ornamentals;* just now we can offer inducements to those in want of

Clematis	Ampelopsis
Barberry	Japan Quince
Peonies	Blue Spruce
Shrubs	Arbor Vitae
Vines	Shades

Our Bulletins, showing exact quantities available, will be mailed at intervals through the season to those asking for them. Use printed stationery in writing as we send prices to The Trade only. We are headquarters, and those buying direct save middle profits.

Jackson & Perkins Company
NURSERYMEN AND FLORISTS,
Wholesale Only.
NEWARK, (Wayne County,) NEW YORK.

Let Us Give You Some Especially Low Prices

ON THE FOLLOWING FIRST CLASS STOCK.

LEMONS, AMERICAN WONDER,
FICUS ELASTICA,
KENTIA BELMOREANA,
KENTIA FORSTERIANA,
LATANIA BORBONICA,
GARDENIA FLORIDA,
GARDENIA VEITCHII (For forcing)
BIOTA AUREA NANA,
(BERKMAN'S GOLDEN ARBOR VITAE.)

This year we have Ten Acres of This Popular Conifer.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. Over 450 Acres in Nurseries.
MENTION THIS AD.

When writing to Advertisers mention The National Nurseryman.

It is a Short Story, This Time

"GET BUSY!"

THAT is, if you want to dip in for a share of the greatest trade in nursery stock the United States has ever known. The people who want trees, plants and vines have the money to pay good prices for them to the nurserymen who ask them to buy.

And it's the *how* of asking that makes the difference between a sale and a shake, mighty often! The catalogue you send out is your selling, inviting, asking representative—*or* it is your repelling misrepresentative. If you have bought it on the basis of the cheapest you could worry out of some inexperienced printer, it will probably get you the shake, quick enough! Is a cheap catalogue any economy when it gently reposes in the waste-basket of the man whom it has failed to make a customer of?

The Mount Pleasant Press has been very busy making the other sort of catalogue. In the two months of December and January we have turned out a little over forty-one million pages of the best horticultural catalogues made in the world. We've produced better color-work than ever, and more of it. One customer writes (he's been with us fifteen years): "The catalogues came today. They are the best we've had yet."

We can make some more in February and early March. If you want our help, write in a hurry. Say how many, what size, when. Let us see what you have had. Be as definite as possible, and as quick; paper is going up in price, and we can't guarantee figures ten days ahead.

GET BUSY!

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

TREES

The Largest And Finest Assortment On the Pacific Coast, Of

Fruit Trees, Grape Vines, Roses and Ornamental Stock

WE ARE OFFERING, FOR THE FIRST TIME, FOUR OF BURBANK'S NEW AND VALUABLE CREATIONS, OF WHICH WE ARE THE SOLE PROPAGATORS.

Santa Rosa Plum — Rutland Plumcot
Pa[illegible]ox Walnut — Royal Walnut

Write for Beautifully Illustrated Pamphlet.

Write To-day for New Descriptive Catalogue and Price List. It is a compendium of valuable information.

PAID UP CAPITAL, $200,000.00.

FANCHER CREEK NURSERIES, INC.

GEO. C. ROEDING. Pres. and Mgr.

MAIN OFFICE, 1215 J STREET. FRESNO, CALIFORNIA.

Apple Seedlings — French Grown — All grades Straight and Branched.

Apple Grafts. — Put up on French or American Stocks.

Piece Root and Whole Root Mahalebs, French Pear and Myrobolan. All grades now in our cellar.

Also French Crab Apple Seed. No one has better.

General Nursery Stock

We have a large assortment in storage, and will be prepared to make shipments at any time. Prices promptly quoted on application.

Shenandoah Nurseries,

D. S. LAKE, Propr.

Established 1870. 600 Acres. Shenandoah, Iowa.

When writing to Advertisers mention The National Nurseryman.

Mount Arbor Nurseries,

E. S. WELCH, Proprietor,

136 Center Street, SHENANDOAH, IOWA.

OFFER LARGE STOCK FOR SPRING 1907.

- **Apple and Crab** — 125 Varieties, all grades.
- **Cherry** — Two Years. Sweet and Sour Sorts.
- **Plum** — European, Japanese and Americana leading kinds.
- **Ornamental Trees and Shrubs** — Leading popular kinds.
- **Roses** — Hydrid Perpetual, Ramblers, Climbing, etc.
- **Vines** — Choice lot of Hardy Stock.
- **Apple Grafts** — Any style made to order.
- **Apple Seedlings and Fruit Stocks**

We make a specialty of carrying a full assortment of stock for the wholesale trade.

ASK FOR *SPRING TRADE LIST*, NOW READY.

The Barnes Bros. Nursery Co.

YALESVILLE, CONN.

OFFER THE FOLLOWING SURPLUS, SMOOTH, STRAIGHT, WELL GRADED AND NEARLY ALL IN CELLARS SO IT CAN BE SHIPPED ANY TIME.

PEACHES, ONE YR.	9-16″ and up.	½ to 9-16″	7-16 to ½″	⅜ to 7-16″	2 to 3 ft.
Bray's Rareripe,	...	...	....	1000	1500
Belle of Georgia,	300	200	4000	100	3000
Carman,	200	300	200	600	1500
Chair's Choice,	100	...	200	200	250
Champion,	3400	2400	1000	800	2000
Crawford's Early,	100	300	800	700	1000
Crawford's Late,	...	...	500	1000	2000
Elberta,	5000	500	1500	...	2000
Frances,	200	100	300	300	150
Hieley,	800	500	400	400	450
Iron Mountain,	60	250	35	200	800
Mountain Rose,	700	900	1000	1000	2000
Niagara,	70	150	260	200	400
Old Mixon Free,	400	1000	1000	600	1200
Stump,	1000	2000	2000	2500	1000
Stevens Rareripe,	1000	1500	700	1600	2000

APPLES.	¾″ and up.	⅝ to ¾″
Rhode Island Greening,	1000	750
Ben Davis,	500	800
Sutton Beauty,	300	300

We also have a large lot of Asparagus Roots and Currants, Wilder and Fays; also Plums, European and Japanese varieties, including Satsuma.

WRITE AT ONCE FOR PRICES ON WHAT YOU CAN USE.

When writing to Advertisers mention The National Nurseryman.

A handsome and mature Camperdown elm. Grounds of Ellwanger & Barry, Rochester, N. Y.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XV. ROCHESTER, N. Y., FEBRUARY, 1907. No. 2.

THE MOUNT HOPE NURSERIES.

AN HISTORIC FIRM FOUNDED AT ROCHESTER BY GEORGE ELLWANGER AND PATRICK BARRY IN 1840.

In the early days when the falls of the Genesee River furnished the energy for the turning of the many millstones which ground into flour the golden wheat produced along its banks, and the shores of lake Ontario, Rochester was known as the "Flour City." But a new industrial era entered about the middle of the last century, which changed the spelling of the word, and gave an entirely new significance to its meaning It was about the year 1840 that Patrick Barry, an energetic young Irishman, came to Rochester by way of Long Island, and entered into partnership with Mr. George Ellwanger, for the purpose of conducting a general nursery business. Mr. Barry came fresh from a term of practical experience with an old, probably the oldest of the nursery firms of the United States, the Princes of Long Island. This was a step of great importance to the persons concerned, and to the community at large, for the firm of Ellwanger and Barry has since acquired a world-wide reputation among botanists, horticulturists, fruit growers and plant lovers. Mr. Patrick Barry died June 23, 1890. Mr. Ellwanger lived until a few weeks ago, retaining an interest in horticultural work, almost to the last day, although for several years very much weakened physically. He came to the United States from Germany in 1835 and soon afterwards engaged in the seed business in Rochester which he left to organize the Mount Hope nurseries with Mr. Barry. His recent death has been widely mourned for he was a philanthropist and a generous hearted citizen.

A group of Cornell students, members of the class in practical Pomology, visiting orchards of Ellwanger and Barry, June, 1906. Group remarkable for variety of nationalities represented. Mr. W. C. Barry stands seventh from the left, on his right standing is a native of Nova Scotia, on his left a native of Bengal, India. Seated to the right and in front is a native of Denmark.

General view of the range of propagating houses where a great quantity and large variety of ornamentals are multiplied by cuttings, by grafting and budding.

For many years Mr. Patrick Barry was the most commanding figure in American horticulture. He was a man of strong personality, clear perception, and great integrity. He was a co-worker with Downing, Wilder, Thomas, Prince, Parsons, and other noted American horticulturists. He was at different times editor of leading horticultural journals, and is the author of "The Fruit Garden," a book which has run through several editions. For over thirty years and until his death, Mr. Barry was president of the Western New York Horticultural Society. In this office he was succeeded by his son, William C. Barry, who has been retained in the position up to the present time.

Cornell Students in the test vineyard of Ellwanger & Barry.

Following the establishment of this noted nursery came the large array of nursery and plant growing houses, which have changed the characterization of the name and its meaning from "Flour" to "Flower City," and in this modification the firm herein described has had a leading part. It is not our purpose, however, to deal in personalities in this sketch, but to describe the activities of a great nursery firm.

LOCATION.

On a gentle elevation called Mount Hope on the out-skirts of Rochester, but long since encircled by the spreading arms of the city, the home grounds of this nursery are located. The soil is similar in character to the rich loams of western New York, varying from the sandy and sometimes gravelly type in which clay predominates. This land has been thoroughly prepared by underdraining, and has been enriched by fertilizing, regular rotation, and thorough tillage. Its fertility seems not to have been impaired in the long series of years in which it has grown various classes of nursery crops.

THE TEST GROUNDS.

Early in the history of this firm, the members being deeply interested in the pomological and scientific phases of their calling conceived the idea of devoting a part of the ground to strictly experimental purposes. To this end considerable areas were set with complete collections of the different classes of fruits; for variety testing in those days was as much a question as it is at the present, and more so. Planters were without experience and without counsellors. Great groups of pears, apples, plums and other stone fruits, were gathered and planted. Among the most notable collections which remain at the present day are pears, plums and grapes. Of the pears, the varieties are represented by dwarfs, in many cases, and frequently by standards. The dwarf pear and its possibilities has been one of the lines of fruit growing warmly promoted by Ellwanger and Barry. These test grounds are maintained, indeed they have been for nearly half a century, at great expense, and have enabled this firm to give the extensive and accurate descriptive lists in their annual catalogues for which they are noted. The collections have also enabled the company to make the great annual exhibitions seen at Syracuse, at the meetings of the American Pomological Society, and at the Western New York Horticultural Society. The exhibit of pears and grapes at these meetings by Ellwanger & Barry has always been a prominent educational feature. The collections of fruits furnished the Department of Horticulture at Cornell University by this

A permanent type of propagating pit made of concrete used by Ellwanger & Barry.

firm for the use of the students in systematic pomology have greatly facilitated the giving of that course, and have been of much technical value to the students taking the work. These collections have also stimulated variety study at a time when the commercial spirit which plants two or three kinds irrespective of quality pervades the country from one end to the other. While pears have always occupied a leading place in the winter exhibitions, yet the collection of grapes in the test vineyard is quite as comprehensive and equally valuable. This test vineyard is in special charge of Mr. Gardner, whose interest in the varieties is as keen as his knowledge is wide.

A twilight scene, office and grounds of Ellwanger & Barry.

INTERESTING FEATURES ON HOME GROUNDS.

No matter how well planted a place may be and how rare the specimens are, they lack impressiveness and dignity unless they have been aided by the time factor. On the home grounds of the Mount Hope Nurseries, one may see some of the best type specimens of exotic trees and shrubs that are to be found in the United States. Illustrations depict the beauty of these forms very imperfectly. We are free to say that the handsome forms of sweeping beech, of pendulous ash, as well as of contrasting fastigiate forms, growing on these home grounds are hardly to be equalled in any park in the country. These specimens are of great value to landscape gardening students and the students of dendrology—or the study of the uses and characters of trees.

For many years a striking feature of the home grounds consisted in a row of stately sequoias, the giant red wood of California. Unfortunately the severity of the winters of '98-'99, and that of three years ago, have spoliated these residents of the milder region of the Pacific Coast, and their beauty has been greatly impaired.

SHRUBS.

A glance at the catalogue shows the completeness of the stock in this department, and a visit to the arboretum during lilac season will afford abundant evidence that the descriptions have all been made as few have from home grown material. It was the privilege of the writer to visit these grounds when the lilacs were in bloom last June, and the memory of the picture will long remain. As an æsthetic treat it is worth many miles of travel, and as an opportunity for technical study, it would be difficult to duplicate. What is true of the lilacs is suggested by the completeness of many other groups of ornamentals, as spiræas, dwarf maples, diervillas, altheas, and the great number of native and exotic conifers.

HERBACEOUS BORDER.

Another interesting feature of these grounds is found in the opportunity to study the relative merits of a large variety of border plants new and old. These herbaceous perennials are arranged in formal order, but in convenient shape for study. The rows are short and the ends of the rows are flanked by a beautiful strip of greensward, which forms an attractive setting. The company has long been interested in studying and planting peonies. It is a member of the American Peony Society, and has taken an active part in studying the nomenclature of this very much mixed group of ornamental perennials.

PROPAGATING PITS AND HOUSES.

Almost from the first, the firm of Ellwanger & Barry have made the propagation of some of the rarer ornamentals a specialty. They were enabled to do this by using labor which had been trained in the European schools. The specialty has been followed and one finds unusual facilities for propagating many of these forms which are difficult to multiply. The outdoor pits are of the most substantial and enduring type, being made of concrete and supplied with movable tops by which shade and light in varying degree may be secured.

Among the Dwarf and Standard Pears in the Ellwanger & Barry test orchard, where hundreds of varieties have been studied.

The extensive range of houses furnish temperature and light conditions required by the large group of exotics which are propagated in them.

These features and many others of great technical and professional interest are seen on the home grounds. If we would examine the nurseries proper, where the staple ornamentals and standard varieties of fruits are grown, it is necessary to go outside of Rochester's boundaries. These need no detailed description, for they are maintained with the same scrupulous care which is manifest on every hand in the home area.

IDEALS IN BUSINESS.

In the conduct of business affairs and the mission it expected to fulfill, this firm began with high ideals. It is safe to say that these ideals have been maintained, and are still adhered to. The firm has prospered as it deserved, through the prosecution of nursery operations upon a conservative basis and by reason of the proximity of a thriving city.

The fact that the company has grown and tested hundreds of varieties of fruits, and has prepared its descriptions and sales lists, not by using stereotyped descriptions, but in accordance with the results shown forth on their own trial grounds is worthy of the highest commendation. But this is of less importance to the great public than the fact that the firm has continually labored for the scientific and educational side of pomology, has endeavored to show the young man the things worth while in a horticultural avocation and impress him with the idea that education and culture were as closely associated with a study of plant growth, as with the orthodox and conventional study of the classics.

The above sketch has not dealt with the complete material equipment of this noted firm. It is unnecessary to draw attention to the extensive stock of apples, pears, plums, peaches, and the like ; the comprehensive assortment of small fruits and all the various odds and ends which a large nursery firm is expected to supply. These features may safely be taken for granted.

In the members of the staff and the employees one finds a suggestion of a regime unfortunately now almost obsolete. The man who finds honor in long service is to be found in the office, in the greenhouse, and in the field. These men feel themselves as much a part of the company as the members of the firm themselves. The company's interests are theirs. These sentiments have been engendered by considerate treatment and fair dealing. Whatever the mission of this representative firm of American nurserymen may be in the future, we should realize that its influence on the horticulture of the past has been potent and beneficent.

W. C. Barry.

WESTERN NEW YORK HORTICULTURAL SOCIETY.

This grand organization of fruit growers of the Empire State met in Rochester, January 23rd and 24th. The meeting was the greatest in history of the society. Mr. W. C. Barry has been president for many years, succeeding his father in this office. The proceedings of the meeting can be secured from the efficient secretary, John Hall, Rochester.

A noble specimen of the weeping beech on the home grounds of Ellwanger & Barry.

SPIRÆA VAN HOUTTEI. The most valuable of all the Spiræas—hardy, showy and bearing white flowers profusely in May.

SINGLE JAPAN SNOWBALL, (Viburnum Tomentosum). The single form of the beautiful Japan Snowball, Viburnum Plicatum; flowers pure white, borne along the branches in flat cymes, in the greatest profusion, early in June. It is perfectly hardy, vigorous, and of good habit, and one of the best flowering shrubs. Still quite rare

GERMAN IRIS. Invaluable for garden decoration, being hardy and of easy culture, and producing large, showy flowers of various colors in great abundance in June.

HARDY PERENNIAL PHLOX, "Lothair." One of the showiest of the tall varieties, bearing large trusses of a rich salmon color with crimson eye, in August and September.
Ellwanger & Barry, Mount Hope Nurseries, Rochester, N. Y.

Legislation.

INSPECTION OF NURSERY STOCK.

A CONSERVATIVE VIEW REGARDING GOVERNMENT INSPECTION.

EDITOR NATIONAL NURSERYMAN:

I have your letter of November 24 asking two questions with reference to nursery inspection.

To the first, with reference to the desirability of putting the inspection of all nursery stock in the hands of the U. S. Department of Agriculture, I would say that I can see no reason why this should be done, in as much as the different states have already provided for inspection, and are doing the work in at least as satisfactory a manner as it would be done by the Department. Of course, every one who has had to do such work, knows that the laws thus far enacted have not in all cases been what they should be, but they are being improved and made uniform. I believe that men located in a limited territory are in a position to keep track of nursery stock, and see that diseased stuff is not sold, to better advantage than can men located at Washington. In short, I do not see any good reason why the state laws now in force should be annulled, and the work put in the hands of the Department.

It is plain to those who have thought much about such things, that the Department is undertaking a great deal of work that ought never to be placed in the hands of government officials. Work it now has in hand ought to be done by the states.

With reference to your question number two, I am disposed to take a somewhat different view. It does not seem so much like going out of the province of government to undertake inspections of imported stock at the ports of entry. But I do not believe the national government should go beyond such inspection.

H. GARMAN,
State Entomologist.

Lexington, Ky.

NURSERY INSPECTION COMMENT BY CHAIRMAN FORBES.

EDITOR NATIONAL NURSERYMAN:

I think I may say, in brief, that the outcome of the session, so far as it affected nursery interests, was satisfactory to all concerned. Our discussions were largely a conference between members of the Association of Horticultural Inspectors and representatives of the National Nurserymen's Association and of the Association of Economic Entomologists. A comparison of ideas and discussion of plans showed that we were all aiming at the same result by substantially like methods, and it was consequently easy to come to a conclusion in accord with the general judgment.

We were greatly aided and profited by the presence of Mr. Albertson and Colonel Watrous, who attended all our meetings and participated in the discussion of subjects of especial interest to them.

It was the general object of our propositions concerning national legislation to secure the oversight, by the Secretary of Agriculture, of interstate commerce in nursery stock and importations of the same, with a minimum disturbance of existing agencies for inspection and control within the states, and at a minimum cost to the national treasury. I hope the nurserymen's organizations will solidly support the legislative committee appointed, and that we may finally get a national law enacted which will remove some of the most serious of the embarrassments to which the nursery trade is now subjected, increasing at the same time the security of the purchaser that his stock shall be free from injurious pests and diseases.

S. A. FORBES.

Champaign, Ill.

NURSERY INSPECTION.

STRONGLY IN FAVOR OF CENTRAL STANDARDS FOR GUIDANCE OF INSPECTORS.

EDITOR NATIONAL NURSERYMAN:

In regard to "The feasibility and desirability of the United States Department of Agriculture undertaking all nursery inspection and thus unifying methods," I have had but one opinion for many years past, which has grown stronger as I have realized through fuller knowledge the utterly inharmonious standards of inspection work in the different states.

If the constitutional provisions for freedom of commerce between the different states is to be carried out in spirit (which seems to me not to be the case at present) it is necessary that nursery stock in all parts of the nation should be up to such a standard of cleanliness as to be acceptable in every other part. State lines do not coincide with the limits of faunal and floral regions, and the carrying out of separate inspections in the different states in accordance with different standards adopted by local boards seems to me an absurdity.

The feasibility of the Department of Agriculture undertaking the work seems to me to have been demonstrated by the work of the Bureau of Animal Industry in connection with animal diseases. If, however, a few of the constitutional restrictions inherited from a time when our nation was in swaddling clothes could be removed, the work of the Department might be made even more effective.

In regard to "The desirability of providing for the inspection of all imported stock," I believe that the large list of imported pests that have been already introduced is an indication that there is need for such inspection, and also a proof that the matter cannot be left to individual states.

H. E. SUMMERS,
State Entomologist of Iowa.

Ames, Iowa.

NEW PLAN FOR DISTRIBUTING FREE SEEDS.

The chief of the Bureau of Plant Industry, Department of Agriculture, Washington, has spent a good deal of time in recent months studying the problem of the abuses of the free distribution of seeds, and ways and means of avoiding it. Mr. Galloway's recommendations are as follows:

First: The abandonment of the miscellaneous distribution of ordinary seeds. Second: The securing through all the sources at the command of the Department, of valuable new seeds, plants, bulbs, etc., which are being developed at home and which are known only locally; the distribution and testing of these new things in regions where it is believed they may have value. Third: The securing from abroad of new seeds, plants, etc., for introduction into this country, and the upbuilding of agricultural industries as a result of this work. This scheme has been approved by the committee on agriculture, and as we go to press is being discussed in the house.

Obituary.

THOMAS B. MEEHAN'S GREAT LOSS.

Mr. and Mrs. Thomas B. Meehan (Philadelphia) met with an irreparable loss and great sorrow in the death of their ten year old son, Thomas, which occurred on January 28. The death was due to an accident, and came with terrifying suddenness. The little chap was one of the lights of the household, full of intelligence, vigor and animation. The sympathy of Mr. Meehan's co-workers on this journal and in the field of the plant world is warmly tendered to Mr. and Mrs. Meehan in this trying hour.

In Memoriam.

JOHN C. BLAIR.

RESOLUTIONS BY WESTERN NURSERYMEN'S ASSOCIATION.

It being noted that our deceased fellow laborer and friend was for many years actively engaged as a nurseryman and was always interested in all that pertains to the trade and to the welfare of our craft, that he was always helpful to all interested in our calling, that he was to each of us a friend, and that he has during the past year been called to his final reward.

Now, therefore, be it noted we will hold in kindliest regard the pure mind, the kindly purpose and the helpful nature of this our deceased friend.

That this body desires its kindly sympathy conveyed to the friends of the deceased, and that we instruct the secretary to spread on the records of this association this tribute to the memory of our deceased fellow laborer.

The National Nurseryman

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STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.: secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer William Pitkin, Rochester, N. Y Meets annually in January.

Western Association of Wholesale Nurserymen — President, A. Willis' Ottawa, Kansas; vice president, George Marshall, Arlington, Neb.; secretary, E. J. Holman, Leavenworth Kansas

Southern Nurserymen's Association—President John A Young, Greensboro, N C ; vice president, C. N. Griffing, Jacksonville, Fla ; secretary-treasurer Chas T. Smith, Concord, Ga. The next meeting will be held in Richmond, Va August, 1907.

Oklahoma Association of Nurserymen—President, J. A. Lopeman; vice-president, J P. Taylor; secretary and treasurer, C. E Garee.

Texas Nurserymen's Association—President, E W. Kirkpatrick, McKinney, Texas; vice president, B. L. Adams, Bonham, Texas; secretary treasurer, John S Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa ; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

How many nurserymen make a business of posting themselves thoroughly regarding the classification schedules of the express companies? How many see to it that the agents themselves know what they are talking about? It is up to the business man of this day and age to see that he is getting his rights. We are glad to note that the traffic manager with President Harrison have been looking into this important matter and we have pleasure in acknowledging the courtesy of Mr. J. H. Bradley of the American Express Company in presenting our readers with the instructive letter of explanation which appears in another column. We hope, also, that our readers will find that the information here offered will be of real service the coming season.

EXPRESS RATES

One of the large firms of the Middle West informs us that California peach growers are now looking to the East for their planting stock. California makes a demand for a certain type of peaches. Among them are Muir, Phillips and Lovell. Elberta is also being added to the western list. This is interesting. The great peach planting fever which characterized conditions in Georgia a couple of years ago has passed away. The prevalence of brown rot together with shipping difficulties has placed a check on the enthusiasm of planters, and is very materially restricting the orchard area. In apples the wholesale demand for Ben Davis, of a few years ago, seems to be waning, if it has not already passed that point. Western men are in the light of the experience of 1906 feeling that too many Ben Davis trees have been planted, and there is a revulsion of feeling in favor of a higher grade of apples.

A REVIEW OF THE PAST SEASON.

In ornamentals the trade undoubtedly is strengthening. More parks are being planted, more taste is being exhibited in the planting of home grounds, more money is being spent generally in exploiting the æsthetic side of horticulture. There is, however, a great divergence in the matter of prices and methods of handling ornamental stock. There seems to be less uniformity in this branch than in most other departments of the nursery business. There is need for a better understanding.

The Association of Economic Entomologists at their annual meeting at Columbia University late in December took an important step, when they made the recommendations which were reported in the last issue of the National Nurseryman. It is to be remembered that these are mere recommendations. They simply record an effort to institute a change in the method of controlling injurious insects. There were two parts to these resolutions, one which aimed to guard against the introduction of injurious insects from foreign countries. We will all agree with the desirability of this movement. The other aimed to control the insects and diseases already established, many of which are rapidly spreading. The methods by which both of these movements, very desirable in principle, can be materialized, must be worked out by the Secretary of Agriculture in harmony with the nurserymen of the country, and the co-operation of the United States Bureau of

LEGISLATION AGAINST NOXIOUS INSECTS.

Entomology. It is to be remembered that they are recommendations only. Whether the action of the Economic Entomologists will crystallize into a bill which will be presented in Congress, will depend largely upon the attitude of the American Association of Nurserymen. The members of this association are the men whose dictum will carry most weight. Legislators are guided by the voice of the persons whose interests are directly affected.

We can all feel assured that in case a measure carrying out the spirit of these resolutions was presented, and did pass Congress, that the Secretary of Agriculture would proceed in a most conservative and exceedingly cautious manner. His first steps would in large degree be experimental. No bill could be passed clearly defining and outlining the work of the department. A large amount of latitude would of necessity be left in the hands of the Secretary and his officers. However, before any movement of this kind occurs, the whole subject will be presented at the annual meeting of the American Association of Nurserymen, and we hope will receive thorough discussion.

SOLUBLE OILS FOR SAN JOSÉ SCALE.

The New York Experiment Station at Geneva has recently issued a bulletin describing various experiments in the use of these miscible or so called soluble oils for the suppression and control of San José Scale. The results of these experiments lead the investigators to present the following summary and conclusions:

Applications of proprietary miscible oils at the rate of one part of oil to twenty or twenty-five parts of water failed to give uniform results on scale. Trees receiving these treatments usually showed more or less spotting of the fruit and varying infestation of the new growth.

Miscible oils in the proportion of one part of oil to ten or fifteen parts of water, while uniformly more destructive to the scale than the weaker preparations, were usually not quite so efficient as the boiled lime-sulphur wash. These stronger applications destroyed large percentages of the scales, being sufficiently effective to maintain the thriftiness of the trees and to keep the fruit crop fairly clean. On the basis of these results even the better ones of the miscible oils tested should not be used in weaker mixtures than one part to ten or fifteen parts of water.

The miscible oils are commercial insecticides and therefore the orchardist should understand that the reliability of the stock material rests with the compounder. These sprays are simple to prepare for use, and are convenient preparations for the treatment of odd trees and small orchards. The cost of the miscible oils in the proportions of one part to ten or fifteen parts of water makes their use almost prohibitive for commercial orchardists who desire a safe and comparatively cheap oil spray. Compounders of commercial insecticides should endeavor to produce a reliable miscible oil that is cheaper than present brands.

DENATURED ALCOHOL.

The outlook for the general manufacture and application of this energy-giving agent to our industries is not promising. Latest investigations indicate that it is probable under present conditions that the denatured brand will cost the consumer about forty cents a gallon. This is very much too high to hope that it will occupy an important place in the development of new industries depending on cheap power of this kind. It also means that very little corn will be worked over into this form.

OREGON SPRAYING LAWS.

Oregon has a law which gives the nursery and orchard commissioner power to enforce the spraying of orchard trees or cause the destruction of orchard trees when in his opinion such action is necessary for the welfare of the community. Recently the state commissioner ordered a fruit grower of Milwaukee, Oregon, to spray scale infested trees. The grower disregarded the order. The commissioner went into the orchard and cut down the infested prunes. The grower brought action against him. The case was tried with the result that the commissioner and the law were upheld. The court said that the commissioner had a right to cut down the trees after Sellwood, the grower, failed to comply with the law; and that the judge's recommendations to the jury were clear cut and unequivocal. There is no question that in many cases infested orchards, vineyards, and other fruit plantations are a serious menace to the entire community.

A NEW VEGETABLE FOOD

The latest type of vegetable food placed upon the market comes from the sea. It is called "seatron," and is made from seaweed or kelp. Naturally we look for this in the region of the Pacific Coast, and find that in the markets of the large cities that this new commodity has found a place. It is a species of conserve and said to be somewhat similar, but an improvement on citron.

PURE FOOD LAWS.

The commissioners having charge of the administration of the pure food laws have ruled that the use of a moderate amount of sulphur dioxide for the bleaching of fruits and molasses will be permitted for the time being. The amount in the fruit products generally is limited to .035 per cent, and this standard is to be adopted for those fruits treated with burning sulphur for bleaching purposes.

PACKING APPLES.

At the convention of the National League of Commission Merchants at Pittsburg, Mr. E. R. Lord of Boston read a paper on the packing of apples, in which he advocated a law which should standardize the grade, and which should compel the grower or packer to stencil his name, to state where grown, and the quality of the fruit on the head of the barrel, and this statement in letters not less than one-half inch in length.

A movement is also on foot, with headquarters in Chicago, for the bringing about of a national law to compel uniform packing of fruits, the package to bear either the name of the packer or a registered number, and the quality of the fruit in the package to be designated by registered marks. William L. Loeffel, or Barnett Brothers, Chicago, secretary of the legislative committee, is the person who is pushing the movement.

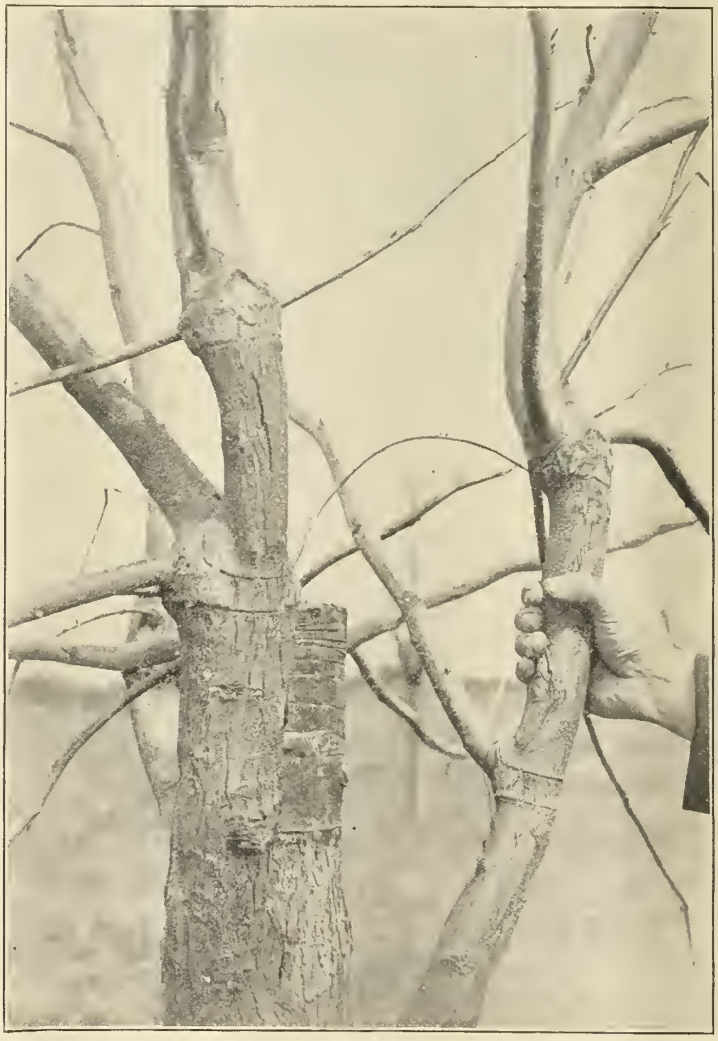
The editor of the NATIONAL NURSERYMAN presented a paper along this line advocating the same measures at the last meeting of the Inter-National Apple Shippers' Association. The recommendations which it contained were adopted by the convention. It is only a question of time when the principle of inspection will become generally accepted. The next step will be the development of a conservative enactment providing for the inspection of export apples.

PECAN CULTURE.

A PROMISING LINE OF ORCHARD ENDEAVOR FOR A LARGE PORTION OF THE SOUTHWEST.

It is astonishing how few people there are who know what a pecan nut is, and still more surprising to realize that there are very few who recognize difference in quality or varieties, and who really know that there is nearly as much difference in the flavor of pecans as there is in the flavor of different varieties of apples. The wild seedlings may be thick shelled, bitter and astringent, whereas the cultivated forms are thin shelled, rich, and delicate in flavor and texture. For many years the markets of the East have received and have consumed considerable quantities of the seedling nuts of Florida, Louisiana, Mississippi, Texas, and other regions where the pecan is indigenous. These nuts range from good to very indifferent and poor. They all present the same polished brown exterior in the grocers' window, but vary greatly in the quality of their meaty contents.

The United States is a good deal of a nut eating country. Something over $5,000,000 worth of nuts are imported annually. On the other hand, we only export about $30,000 worth. This export quantity is largely made up of English walnuts grown on the Pacific coast, and perhaps a few pecans from the South. It is interesting to note that as the pecan has become known in the East, its consumption has increased, and with increasing consumption has come also higher prices. Less than ten years ago ordinary nuts could be bought for five or six cents a pound. These nuts, which were then used by nurserymen for growing seedling stocks, now bring eight to twelve cents a pound. There is a still greater advance in the price of the really edible varieties. Where formerly they were sold for ten cents, they now bring twenty and thirty cents, while the propagated varieties sell up to fifty and sixty cents, when a private and personal trade is established. There is no question at all that the pecan is one of the coming nuts, and bound to be a leader among the orchard fruits of the future.



Seedling pecan trees top-worked by the annular or ring budding method.

As a fruit, it possesses the important quality of being non-perishable within reasonable limits. Cold storage is not a factor, and transportation facilities are of relatively small importance.

This tree, which belongs to the walnut family and is known technically by the name of carya olivaeformis, or more lately hicoria pecan, has quite a wide distribution in the United States. Naturally, it is distributed more abundantly on the rich, alluvial bottoms of the streams than on the higher lands. The pecan runs as far north as Southern Iowa, and as far west as the Colorado river in Texas, extending southerly to Central Georgia. Roughly speaking, we may say that it occupies practically the same area as the cotton plant, although it can be grown farther north.

When growing in the open, it makes an exceedingly handsome tree. It is stately and symmetrical. Well developed specimens reach a height of 150 to 170 feet. The flowers, like those of a good many nut trees, are of two kinds, male and female, or staminate and pistillate. The staminate flower is in the form of a catkin, while the pistillate flower is an inconspicuous floral organ which finally develops the nut with its four-valved covering or husk. The pecan depends upon the wind to set its flowers. The pollen is scattered and drifted and carried by the wind, and nature does the rest. Unfavorable pollenation periods

A pecan orchard in South Georgia two years after setting out. Distance forty feet apart.

Method of gradually working over the top of a large seedling pecan. The central portion first. The side branches afterwards.

Showing Patch Budding and Cleft Grafting.

then, may lessen the set of the fruit, but aside from this the weak points are remarkably few.

As intimated in an earlier part of this paper, the nuts vary greatly in size. Some of them weigh as much as an ounce, while others weigh less than an eighth of an ounce. Then there is an extraordinary difference in the thickness of the shell, the improved varieties being veritable "paper shells."

PROPAGATION.

Propagation at the present time differs little from the method practiced in propagating stone fruits. Seedlings are grown from cheap nuts, and these are grafted or budded. Different growers have their preferences in regard to methods of propagation. One man who practices cleft grafting says that this is the method for him; while another man who is an adept at whip grafting clings to this method; while another says that patch or ring budding, which means the transfer of a strip of bark from the scion with the bud to the stock, is the only plan worth practicing.

A good deal of top-working is now going on where seedling trees of satisfactory vigor, but of poor quality of fruit, are grown. These with care and good judgment may be changed over to profitable varieties, and this work is being done by some of the skillful propagators of Georgia and Florida.

The pecan is, as noted above, a large-growing, long-lived tree. It needs therefore plenty of space in the orchard. Growers are now setting them at forty and fifty feet apart. If one sets forty by forty, twenty-seven trees to the acre is required. Forty by forty-five calls for twenty-four trees, while fifty by fifty only requires seventeen trees to the acre.

The reader will ask how soon they come into bearing. How long must a man wait for his investment to begin to yield a dividend? Well, this is not altogether a difficult question to answer, although results will vary in different parts of the country. It may be said that in general the pecan orchard will bear as early as an apple orchard, and remain in bearing twice as long. Planting as far apart as has been suggested gives opportunity for utilizing the ground with other crops during the unproductive period. Some of the best growers in Florida and Georgia are planting peaches between their pecans, and then for the first two or three years growing cotton in the interspaces. This method is all right if it is prosecuted with good judgment and skill, but there is danger of overworking the ground, and some danger of injuriously crowding the pecans.

Among the varieties now generally recommended are Stewart, Van Deman, and Frotscher. Other good kinds are Schley and Curtis. As in growing apples, I think that a man should avoid planting too many kinds.

The pecan is certainly one of the attractive fruit crops of the Middle South, and a pecan orchard in that region promises as well and probably better as an investment than any other kind of field crop that a man can go into. It is a crop which, as far as our knowledge of its requirements extends, will take care of itself as well as any, has fewer enemies, and has greater possibilities from the standpoint of handling and holding the product than any other orchard fruit cultivated at the present time. Large areas are being planted in the Gulf States, but in my opinion there is little fear of the industry being overdone for the reasons already stated.

JOHN CRAIG.

THE APPLE MARKET.

Prices for apples in Chicago continued low during the early part of December. There was little demand for poor fruit and not a very active demand for good grades at $2.00 to $2.25 per barrel. In New York, the market was well supplied with apples and the prices ranged from $2.25 to $3.00 per barrel. The best apples moved most actively. The poorer grades were sluggish. The European January market was discouraging. Quite a number of fruit handlers ceased exporting for the time being.

THE NATIONAL ASSOCIATION OF RETAIL NURSERYMEN.

WM. PITKIN, PRESIDENT—FOURTH ANNUAL DINNER, EUREKA CLUB, TUESDAY EVENING, JANUARY 22, 1907, ROCHESTER, N. Y.

The success of these dinners has been growing each year. This year capped all previous occasions in point of attendance and in the spirit of friendly jollity and fraternal feeling which abounded—parenthetically it may be added that quite a variety of spirit was in evidence—but it was wholesome, of the kind that promoted a good time.

The arrangements were so thoroughly perfected that the program was run off smoothly without the slightest hitch.

The secret of success is to be found in the skillful management of the affair by the committee on arrangements.

Mr. B. F. Allen was again chairman of the committee assisted by W. W. Wyman, E. S. Osborne and C. L. Yates, all of Rochester.

This group of workers had the mechanism so well lubricated and everything so precisely adjusted that the affair was carried out with delightful ease and harmony. A spirit of friendliness was in the air, another kind on the tables and good cheer all round.

The Eureka Club was the scene of the festivities, music was furnished by a city orchestra and The Rochester Quartet. The menu which follows was well served and satisfying.

MENU.

Selection - - - - - - - - By Quartette
Blue Points Celery Olives
Chicken Bouillon (En Tasse) Radishes Cheese Wafers
Fillet of Halibut (Hollandaise) Parisian Potatoes
Lobster Cutlets (a la Reine) String Beans
Roman Punch Cigarettes
Philadelphia Capon (au Cresson) Bermuda Potatoes
Chicken Salad Nesselrode Pudding (Petit Tours)
Cheese Crackers Coffee Cigars

At 9:30 President Wm. Pitkin arose and presented the toastmaster, Judge Lynn of Rochester. Mr. Pitkin in an interesting and conclusive way elaborated on the splendid qualifications of the Judge for the position. It is needless to say that the Judge discharged his duties with grace, wit and wisdom. A feature of the evening was the arrival of a series of telegrams from persons prominent in the social, industrial and political worlds. These brought greetings, offered or asked advice and generally contained "a drive" at some person or custom.

THE GUESTS.

The dinner was favored by the presence of Hon. Orlando Harrison, President of the American Association of Nurserymen, who responded felicitously in behalf of the organization which he represented, Mr. Emory Albertson, traffic manager of the association, W. T. Hood of Richmond, Va., and a number of other gentlemen.

The menu cards were very attractive artistic productions, a complimentary presentation of the lithographing press of Vredenburg & Co., of Rochester, for which the committee wishes to express their thanks for this firm's most generous gift.

TOASTS.

Hon. John D. Lynn, Toastmaster.

"A Square Deal," . . . . . Mr. C. J. Malloy.
"A Political Deal," . . . . . Mr. W. K. Gillett.
"A Nurserymen's Deal," . . . . Hon. Chas. A. Ogden.
The Shrub, "Common People," . . . Hon. H. R. Glynn.
Singing, "America."
Selections by Rochester Male Quartette.
Music by Fifty-Fourth Regiment Band.

THE ATTENDANCE.

About one hundred and fifteen sat down. Rochester was largely represented by members and employees of the leading firms, including the Chase Bros. Company, Brown Bros., The Taylors, Charltons, Grahams, Hookers and many others. Newark was represented by a large delegation from C. W. Stewart & Co., and Jackson-Perkins Co., while Geneva and Dansville were each represented by members of the leading firms. Fredonia was also well represented by our genial friend George S. Josselyn. On the whole, the association scored a large social success and is to be warmly congratulated.

Quiz Column.

Question: 1. What is the proper time, quantity and mode of applying tobacco dust to apple trees in the nursery row?
2. Will apple trees do well on tobacco land? R. R., W. Va.

Answer: I would say briefly that tobacco dust should be applied in the spring, about the middle of April in this latitude. That at least 500 pounds per acre, of nursery stock should be applied, and possibly more. Removing the earth from one or preferably both sides of the trees in the nursery row by plowing, putting the dust by hand as close to the roots as possible, and covering over by furrowing seems to be the best mode of application. I might add that this department has been experimenting in the use of this material for preventing the wooly aphis of the apple, for two years past. In some of our tests we have employed as much as 2,500 pounds of the dust per acre. Of course, it is generally known that the dust is a good fertilizer as well as an insecticide. Some of our experiments have given entire satisfaction while others have been otherwise. A very important factor which enters into the results is the grade or quality of tobacco dust used, and I would recommend that the nurserymen be very careful in securing this material, and see that it is as clean of foreign articles as possible.

State Entomologist, Maryland. Prof. T. B. SYMONS.

We have, at various times in the past, used tobacco stems as fertilizer for apple trees and found their use very satisfactory indeed—the trees making good growth; tobacco stems are also very good for strawberries, grass, etc. We, at one time, used a lot of partially burned tobacco; this, however, practically amounted to nothing when placed on land, and we could see no good effects from its use.

We see no reason why tobacco land should not be good land for nursery stock, provided it has not been worked to death. We believe it will produce good apple trees.

Richmond, Va. W. T HOOD.

MONTANA NURSERY COMPANY.

This Company, with headquarters at Missoula, Montana, expect to establish a branch nursery at Billings. One hundred acres of land have been purchased near that town, and arrangements are being made for the erection of warehouse and packing plant.

PEACH BLIGHT IN CALIFORNIA.

The pear is not the only tree afflicted by a serious type of blight in California, for recent statements by plant pathologists call attention to a serious form of winter blight which attacks the peach tree, killing the fruit buds and young wood. As a preventive of this disease November spraying with Bordeaux mixture is recommended. Spraying in midwinter is ineffective.

MESSRS. BOGUE AND CHASE ON THE PACIFIC COAST.

Messrs. Nelson Bogue, of Batavia, and Lewis Chase, of Chase Bros. Company, Rochester, started for California about the first of the year, where they expect to pass the months of January and February. Both gentlemen have extensive interests on the Pacific coast.

MR. HARRISON BUSY.

Pres. Harrison has been busily engaged during the greater part of December and January in attending the various state horticultural society meetings. He appeared on the program of the New Jersey and the Peninsula Horticultural Societies early in January, and attended the Harrisburg and Connecticut meetings later in the month.

The Falfurrias Immigration Company, with offices in Kansas City, offers an extensive tract of land situated in the Gulf Coast of Texas. This land, they claim, is adapted to the growing of citrus fruits, as well as deciduous fruits, such as plums, peaches, and apricots. Certain it is that the Texas country is undergoing a period of very rapid development.

Business Movements.

FREE SCALICIDE.

The B. G. Pratt Company, manufacturers of Scalecide, No. 11 Broadway, New York City, offers to furnish any village improvement association, spraying commission, or any other organized body provided with the necessary apparatus for systematic spraying, fifty gallons scalecide free of charge. Those applying for the free distribution of this insecticide, which according to our previous reports, has given excellent results, should accompany their application with a paper certifying to the authenticity and reliability of the organization. This should also be accompanied by an order for an additional fifty gallons of Scalecide. In other words, the purchase of one fifty-gallon barrel brings an equal amount free of charge.

CHANGE OF ADDRESS.

The Spaulding Nursery and Orchard Company has moved its post-office from Spaulding to Springfield, Illinois. The nurseries still remain at Spaulding, but all mail matter should be directed to Springfield.

THE NUT NURSERY COMPANY,

MONTICELLO, FLA., January 1, 1907.

To Friends and Patrons:

This certifies that I have sold my nursery interests here to Messrs. Simpson Bros., of Vincennes, Ind., who take possession to-day. The business will be continued under the firm name of The Nut Nursery Company.

I wish to thank my customers and friends for their liberal support and encouragement which has enabled me to build up a very successful nursery business in my special line; and I bespeak for Messrs. Simpson Bros. the same liberal patronage.

Simpson Bros. are well known to the nursery trade, having with their father, Mr. H. M. Simpson, conducted a very successful nursery business under the firm name of H. M. Simpson & Sons, at Vincennes, Ind. This firm has long been known to the trade as very successful growers of cherry trees and general nursery stock.

The growing of grafted pecans and other nut trees here will be under the management of Mr. Ray C. Simpson who is especially fitted for the work, having helped here with propagating and all stages of the work two seasons. Mr. Simpson has a natural turn and liking for nursery work and has had large experience in the growing of general nursery stock at Vincennes, Ind. He has made a special study of horticulture, and is a graduate of the College of Agriculture, Cornell University, Ithaca, N. Y.

Again thanking you for all your favors, I remain,

J. F. JONES.

A pecan nursery-orchard. The nursery trees are being thinned out so that those remaining will stand at proper distances for permanent growth.

ASSOCIATION MATTERS.

WHAT OF THE FUTURE?

DO NURSERYMEN EXPECT TO KEEP PACE WITH OTHER LINES OF BUSINESS? IMPORTANT QUESTIONS RAISED BY PRESIDENT HARRISON.

How many nurserymen, wholesale or retail, are there who can show that they have done a real profitable business the past year? The supply of stock for the year just closed was not excessive, and the amount on hand is limited. Under the circumstances one would expect that the price would be influenced by the law of supply and demand. But does this appear to be the case? Have not prices ruled abnormally low throughout the season? While the demand was keen and most good nurserymen had all the business they could handle, can the year be looked upon as one bringing the nurseryman large profits?

The point is this, that the cost of growing the trees has increased enormously during the past five years. Labor has advanced twenty to forty per cent., implements have gone up, horses and mules have increased in price, and all supplies which the nurseryman handles are higher, while the difficulties of transportation have by no means been lessened. It is fair to say that trees cost from fifteen to thirty per cent. more to grow at the present time than they did a few years ago, and this does not include the expense of inspection, of spraying and fumigation.

At this time of the year it is well to reckon up the situation and find exactly where we stand. The labor question itself is a difficult one. The men who have stood by you in heat and in cold, in sunshine and in rain, must be protected. They cannot live on their former wages and increases must be provided. Under the circumstances, is not this whole question of prices of nursery stock a burning one with the tree growers of the country at the present time? It seems to me that there is but one thing to do, and that is to advance the price of nursery stock fully twenty-five per cent. Coupled with this, we can concentrate our efforts on producing not more stock, but better stock. Reduce the area and improve the grade of our product. If we set this ideal before us, we shall have something worth working for in the new year.

ORLANDO HARRISON,
President American Association of Nurserymen.

Berlin, Md.

TARIFF.

EDITOR NATIONAL NURSERYMAN:

The Committee on Tariff of the Nurserymen's Association has for its chairman J. H. Hale of Tennessee. Mr. Runyon of Elizabeth, N. J. and myself are the only Eastern members We held a meeting recently at the Astor House, New York City, and invited a number of the nurserymen to attend. Our topic was whether it seemed advisable to recommend any changes in the tariff laws as they relate to nursery stock at the present time. This was deemed unadvisable and was the substance of the report made to the Chairman of the Committee.

Very respectfully,
WM. H. MOON.

TRANSPORTATION.

EXPRESS RATES ON NURSERY STOCK.

When in New York recently attending the meeting of the Association of Economic Entomologists, reported in the last issue of the NATIONAL NURSERYMAN, President Harrison with Mr. Albertson called upon the traffic manager of the American Express Company to discuss the general subject of express rates in reference to nursery stock. They were courteously received by Mr. H. Bradley who expressed himself as being most anxious to meet the nurserymen on satisfactory terms and to do what he could in the way of removing real or fancied difficulties. At the request of Messrs. Harrison and Albertson, Mr. Bradley presents the following on the matter of express rates :

Whatthese gentlemen wanted particularly, says Mr. Bradley, was the correct express classification of shipments of nursery stock, which information I gave them, and for the benefit of nursery stock shippers I will repeat the information to you.

On small packages, charges prepaid, value declared not to exceed $10.00, our rate is one cent for each two ounces, or fraction thereof, with a minimum charge of ten cents for each company carrying, on the following named articles :

Bulbs,	Plants, not growing, completely enclosed,
Cuttings,	
Decorative Greens,	Roots, for planting,
Grain Samples,	Scions,
Holly,	Seeds,
Mistletoe,	Smilax,
Onion Sets,	Tubers.

On heavier shipments, we charge what is known as our "General Special" rate, on the following named nursery stock items:

*Branches of Pepper Trees,	*Holly,
*Bulbs and Cuttings,	*Mistletoe,
Cape Jessamines,	*Moss,
Celery or Celery Plants,	*Roots,
Cactus,	*Scions,
*Cuttings,	*Smilax.
*Decorative Greens,	*Tubers,
*Ferns, cut,	Vegetables,
Fertilizer,	Water Cress.
Fruit,	

NOTE—Articles indicated thus (*) are not subject to general special rates unless "completely boxed and packed so that they may be handled without extra care, prepaid or guaranteed."

When completely enclosed in baskets and so packed that they may be stowed with other freight, merchandise, pound rates, minimum 35 cents, unless the graduate charge is less."

PLANTS—Our Classification of plants is as follows :

PLANTS, N. O. S., prepaid or guaranteed, . . .	D. MDSE. / SEC. D.
Growing in pots or other receptacles, crated, and so packed that they may be stowed with other freight and may be handled without extra care, and without injury to the plants, . . .	G. S.
Growing in pots or other receptacles, completely boxed or enclosed in baskets must be REFUSED.	
Not growing in pots or other receptacles, completely boxed or crated, and so packed that they may be stowed with other freight and may be handled without extra care and without injury to the plants, ...	G. S. / SEC. D.
Not growing in pots or other receptacles, completely enclosed in baskets, and so packed that they may be stowed with other freight, and may be handled without extra care and without injury to the plants, pound rates, minimum 35 cents, .	MDSE. / SEC. D.

SEEDS.

SEEDS—In boxes or cloth bags, or otherwise securely packed for transportation, prepaid or guaranteed, G. S.

SHRUBS AND TREES.

For setting, when boxed or baled and strawed, prepaid or guaranteed, - - - - - - G. S.

Now, in explanation of our general special rate. This is what is known as "Scale 'N'" of the classification and is a little more than 20 per cent. reduction from merchandise rates. For example:

Where the Merchandise Rate is	General Special Rate is	Where the Merchandise Rate is	General Special Rate is
$.50	$ .40	$3.00	$2.25
.60	.50	3.50	2.50
.75	.60	4.00	2.90
1.00	.80	4.50	3.00
1.25	1.00	5.00	3.40
1.50	1.20	6.00	4.00
2.00	1.50	7.00	4.75
2.50	1.90	8.00	5.50

It will be seen from the above that the reduction ranges, for short distance rates, from 20 per cent. up to 33⅓ per cent., for long distance rates.

From what the gentlemen named stated to me, and also from your letter, it would appear that nurserymen have gleaned the impression that we have increased or changed our rates or classification in filing them with the Interstate Commerce Commission. In reply, I beg to say that we have not made any change. The rates and classification as above referred to have been in effect for a number of years, except that we recently added Smilax and Decorative Greens to the list of articles enumerated under the head of general specials in classification.

Sincerely yours,

J. H. BRADLEY,

Gen'l Traffic Manager, American Express Co.

New York.

PUBLICITY BUREAU.

The chairman of this committee, Mr. James M. Irvine, St. Joseph, Mo., desires that the chairmen of all other committees should inform him of all matters which for the benefit of the members of the Association should be thoroughly aired and advertised. The Committee on Publicity feel that they have two missions, one to keep members posted as to the progress of Association affairs during the year, the other to give due publicity to the proceedings of the convention when that occurs. They are now concerned with current events, and will welcome any information which they can pass on to the rank and file of the Association.

SUGGESTIONS FOR THE QUESTION BOX.

1. What apple seedlings are most desirable for budding?
2. How shall I graft apples and prevent root knot?
3. What success have you in grafting Mazzard cherry?
4. Mahalebs bud well but have poor roots, what can you recommend that will give better roots?
5. Do you sucker your peach, if so at what height, and how high do you trim them when peaches are growing?
6. Do you handle pear about the same as apple in rubbing and gloving?
7. Should nurserymen encourage selling apple trees at one year from bud or grafts before they are attacked with insects?

MIAMI VALLEY NURSERYMEN.

The Nurserymen of the Miami Valley will hold their annual Banquet in February. Our readers will remember the unique program furnished by this progressive organization last year and may look out for something equally good this season.

Note and Comment.

THE PURE FOOD LAWS.

The putting into operation of the pure food laws will make some very important changes in the manufacture of fruit products. The chief of the Bureau of Chemistry states, for instance, that the use of sulphurous acid in the preparation of cured fruits is highly injurious to health, and that it should be excluded from fruit products just as soon as possible. It is not probable that the present practice of the evaporators will be immediately changed, but the Secretary of Agriculture has authority, granted him by act of Congress, which permits him to authorize rules for the use of sulphurous acid in connection with the manufactures of fruit that may entirely change our present practice.

NITRO-CULTURE.

Commercial nitro-cultures for legumes are condemned by the New York State Experiment Station after careful test. The Experiment Station says that extended and careful tests in five different laboratories were made, using many packages of the cotton prepared at different times, kept under favorable conditions, all comparatively fresh and used in accordance with the directions, prove that such packages are worthless for practical inoculation. The Experiment Station claims that the trouble lies in the method itself. This accounts probably in considerable measure for the much greater success secured by those who use soil to inoculate their fields instead of inoculated seed.

VIOLETS IN EASTERN NEW YORK.

The development of the violet industry along the Hudson has been one of the features of horticultural growth in the east. There are so many peculiarities about the cultivation of the violet, coupled with its natural attractiveness, that from the cultural point of view it is in a class by itself. It has appealed to women as a forcing crop, and there are many successful women violet growers in the vicinity of Poughkeepsie and Rhinebeck, New York. Heavy shipments of violets from that section are made every day during the week, even on Sunday, under certain circumstances. Just previous to St. Valentine's Day last year, nearly an entire carload of violets were sent to Chicago from one station. Although the large eastern cities are the main markets, yet the flowers are shipped as far west as Denver and St. Louis.

A NATIONAL WOOD TESTING LABORATORY.

A very important gathering of business men representing various wood manufacturing associations took place at Washington on November 16. The purpose of this conference was to urge upon the government the establishment of a laboratory, under the auspices of the Bureau of Forestry, for the study and examination of the qualities of woods for various purposes. The chief of the Bureau of Forestry expressed himself as favorably disposed to the establishment of such a laboratory, and the following resolution was adopted:

"Resolved, That it is the unanimous sense of this conference that a laboratory for testing the strength and other characteristics of wood, and for solving problems connected with its economic use, is absolutely essential to the manufacturers and users of forest products of this country; that we ask these interests to petition Congress for an appropriation of $200,000 to establish such a laboratory, and that it be under the control of the Forest Service of the Department of Agriculture."

EDITOR NATIONAL NURSERYMAN:

I have read with much interest and approval Mr. Ferrand's reference to the Chase Barometer. My Chase has recently produced another "Tale" with Lige in the leading role, similar to the weather indicator only in this, that it likewise seems to be a seedling on its own roots. Chase seems to have a special propagator at work on Tales and Tails (no mixtures) for it appears that with all "Alabama Grown" thereby hangs one.

I learn he has several in bud now, and on every propitious occasion will one unfold. Three cheers for Herbert A. Chase, Nurseryman and Taiyler! J. W. MCNARY.

A COMPREHENSIVE REVIEW OF THE SEASON.

The NATIONAL NURSERYMAN is able to present the following symposium on two important questions, through the kind co-operation of many of its friends in the field of business activity. The questions asked of these men were :

(1.) What variations, if any, has the year 1906 revealed in the character of the nursery business in your region, over previous years?

(2.) Does the demand for what we might designate nursery luxuries, ornamentals, etc., increase out of proportion to the demand for fruit trees and nursery stock?

(3.) In what way has membership in the American Association of Nurserymen benefited you?

IN THE EAST.

HIGHER GRADE STOCK DEMANDED.

The only variation we have noted in 1906 business is an increasing demand for higher class stock. The people seem to be each year educating themselves more fully as to what a tree should be, and the higher class material markets easier than it did a few years ago.

Membership in the American Association of Nurserymen has been of considerable benefit, and the Association news has kept us posted on important questions coming before nurserymen especially in the matter of freight legislation and on matters of imports and duties.

WM. WARNER HARPER,
Chestnut Hill, Pa. Per. J. H. HUMPHREYS.

MEMBERSHIP IN THE ASSOCIATION A GREAT BENEFIT.

Our experience seems to be that the ornamental side of the business is increasing much more rapidly than the fruit tree side. This may be occasioned by the fact that we have a number of salesmen who devote their exclusive time and attention to looking after this trade and the only time that they sell anything in the way of the fruit tree line is a few things for home consumption.

Membership in the American Association of Nurserymen has benefited us in many ways, one of which is the reduction in the freight tariff; another good work of the Association is the feeling that if adverse legislation of a national character should be proposed, the Association would immediately take the matter up and champion the cause of the nurserymen; another good feature of membership of the Association is the meeting once a year, whereby the nurserymen of the Association become better acquainted, one with the other, and especially is this true of the younger nurserymen.

CHARLTON NURSERY CO.,
Rochester, N. Y. E. S. OSBORNE, *Treas.*

A PROMINENT ROSARIAN.

There has been an increased demand for larger roses and shrubbery—(we do not list trees) and decidedly more inquiry for roses on their own roots.

By becoming acquainted with nurserymen, and getting some idea as to the condition and amount of stock in different localities.

West Grove, Pa. CONARD & JONES CO.

The demand for French fruit and ornamental stocks has apparently been up to the usual standard.

New York. H. FRANK DARROW.

LARGE SHADE TREES WANTED IN OHIO.

We find that there is a more general clean up of stock this season than in previous years; especially is this true of cherry and some sorts of pear. This is due more to a shortage of this stock than to any larger demand.

We do not think that the demand for ornamental stock, etc., increases out of proportion to the demand for fruit trees except on large shade trees used for new additions in large cities.

Tadmor, O. PETER BOHLENDER & SON.

THE MIDDLE WEST.

STRONG DEMAND FOR CHERRIES.

ASSOCIATION A DIRECT FINANCIAL HELPER.

In the year 1906, the demand for cherry trees was greater than ever before with us. Other stock about as usual, with less demand for plums, perhaps. This is due in part no doubt, to the fact that we are growing cherry as a specialty, and had more of them to sell.

While we sell more ornamentals than formerly, the demand has only slightly increased. However, we attribute it more to the fact that we have not pushed that side of the nursery business rather than to the lack of demand.

It has made freight rates cheaper. In the meetings of the association it has greatly benefited us by becoming acquainted with other nurserymen, where we could exchange views on methods both on the floor and privately. It is also a place where all can meet once each year for business, enabling us to see a great many in one place.

Yours truly,
Vincennes, Ind. H. M. SIMPSON & SONS.

ORNAMENTALS INCREASING.

DEMAND FOR FRUITS COMES FROM NEWER TERRITORIES.

The year 1906 has shown a steadily growing demand for ornamental trees, shrubs and evergreens, which probably is largely due to the work of the various Civic Improvement organizations, which are doing much to aid this increase. In the fruit tree line the demand from the newly opened territories tends to equalize the decreasing demand from some well supplied sections.

The American Association of Nurserymen has benefited its members through the regulation of more uniform weights, classifications, car minimums, etc.

Sarcoxie, Mo. WILD BROS. NURSERY CO.

FIRST VICE-PRESIDENT HILL OPTIMISTIC AND CONFIDENT.

1st.—The year 1906, has been an exceedingly prosperous one throughout the west. We have been blessed with abundant crops of all grains, fruits and farm crops.

The situation in the nursery business, remains about the same as previous years. The trade as far as I can learn, has been satisfactory. Many of us have suffered inconveniences on account of scarcity of labor, which seems quite prevalent.

The October freeze, we find did considerable injury to some classes of growing stock. Peaches, which were in almost full leaf and filled with sap, are badly injured, and in some instances entirely killed.

Cherry stocks, (Mahaleb) which were budded last summer, are injured somewhat, and where on low lands, are ruined. A gentleman in our office last week, stated that his entire plant of thirty-five acres would be a total loss.

Retail men are finding it more difficult to secure and hold salesmen this year than formerly. I attribute this very largely to the unusually heavy demand for help in all lines.

2nd.—We do not find our trade in ornamentals to be increasing in greater proportion than that of the general line of fruit trees.

3rd.—We regard membership in the American Association of Nurserymen as a very great benefit socially, by coming in personal contact with men with whom we have dealings every season.

A benefit comes from papers discussed, and an exchange of ideas as to trade conditions. A great benefit has been rendered the membership in matters of transportation, classification, etc., as affected by the officials of the organization during the past two years and "the end is not yet."

Des Moines, Ia. J. W. HILL.

NORTHERN IOWA.

The nursery situation in our vicinity is about the same as usual. On the whole we have found more calls for Ornamentals, Evergreens, etc., than in years past. The general public seems to be getting educated to the need of more ornamental planting and with the great crops and general good times, most people can afford to gratify their taste along this line.

The benefits from our membership in American Association of Nurserymen have been many. The chief however, is in reduction of freight rates and information received covering matters concerning transportation.

Osage, Ia. THE GARDNER NURSERY CO.

CENTRAL IOWA LARGE FRUIT CROPS.

DISCRIMINATING BUYERS OF NURSERY STOCK.

The South-western Iowa was held in Council Bluffs, and was without exception one of the best meetings that I have ever attended. It had been formerly the question of what to plant, but a large part of our time was taken up this year in discussing how to dispose of our immense crops profitably, and the cold storage proposition entered largely into the discussion, as southwestern Iowa gave an exceptionally large crop of apples. The State society had a very large display of fruit, in fact, the finest ever shown in Iowa, and if you had been here to note what northern Iowa showed, you, Mr. Editor, would have felt that the work of the pioneer horticulturists and especially your old department at Ames had been a factor in making this grand display from this part of the state possible.

FEWER VARIETIES.

In answer to your questions, I have noted a tendency on the part of the planter to be more careful about inquiring into the responsibility of the company with which he expects to do business. The object of the planter is to deal with only responsible companies, as irresponsible tree dealers have worked a hardship on many planters by selling them stock that was entirely worthless for their locality, and after years of patient labor, the planter finds that he has received no returns. Another thing; the planters are finding that it pays to confine themselves to fewer varieties. That is, when planting an orchard, they do not, as formerly, try to get as many varieties in it as they possibly can, they find they can readily dispose of a few kinds, when a large crop of many varieties has no commercial value inasmuch as no two varieties in cold storage keep altogether alike, and the proper marketing is becoming a trade in itself.

In regard to the ornamentals, I find that there is becoming an increased demand in the West for fine ornamentals. Heretofore, many merely planted without any view as to the artistic arrangements but are now taking some pattern after the East in this respect.

Membership in the American Association of Nurserymen is a benefit to any up-to-date nurseryman by keeping him in touch with the supply and demand, as I feel that when a party advertises through this medium he has something to offer, and that none but responsible growers are represented.

Waukee, Ia. J. WRAGG & SONS COMPANY.

THE HUSTLING WEST.

COST OF PRODUCTION INCREASES. PRICES DO NOT ADVANCE.

The year 1906 has not differed particularly over past years in the demand for nursery stock; nor has there been a run on any one line of stock, but the call has been for general assortment in all lines of stock that we grow. However, the general prosperity of the country has increased the cost of labor, tools and all other articles necessary to the nurseryman in producing his stock; while prices obtained for nursery stock has remained practically where it has been for several years past, some instances a little lower, and in no case higher, with the possible exception of cherry. The result is clearly shown that prices for nursery stock must advance materially to afford a fair living to the nurseryman, to say nothing of a fair profit that he should rightly secure for the risks involved and money invested in the business.

We grow but little in way of nursery "luxuries," and as our business is principally confined to fruit trees, we have not noted in the past year any particular increase in the demand for ornamentals, etc., in this section.

"In numbers there is strength." This is true of the American Association of Nurserymen, and is shown by the good accomplished by the Association in correcting of freight rates, reduction of minimum weights on carloads, etc. We think this one item alone enough to mention as a reason for the existence of the Association, and the necessity of belonging to and helping on the work for the good of the nursery interests; although many other benefits could be mentioned as accruing to membership in the Association.

Topeka, Kansas. L. R. TAYLOR & SON.

SOUTHERN KANSAS.

ASSOCIATION MEMBERSHIP A DIRECT AID TO BUSINESS.

1st.—The season or year passed has not opened up anything that was new to us in our business.

2nd. The demand for ornamentals has increased with us the past year over previous years, but this has been occasioned by title being obtained to a vast amount of property in the Indian Territory that is being improved and not from any growing demand for the same throughout this part of the country. There are no interurban railroads throughout this country to create a demand for this kind of fancy stock, nor have our cities gained that size, that people move out onto large places to improve.

3rd.—Membership in the American Association has benefited me most by the new classification and weight in car load lots of both peach seed and general nursery stock. Attending the meetings and meeting the trade from all over the United States, I find of great benefit in many ways.

Parsons, Kansas. E. P. BERNARDIN.

THE SOUTH.

PECANS IN DEMAND.

The principal variations in our 1906 business from that of previous years, has been the enormous demand for budded and grafted pecan trees; also the unusual demand for figs, both the wholesale and retail trade.

We believe the demand for ornamental stock and roses is also increasing. We make a specialty of field grown, grafted roses, which are specially adapted to the extreme southern countries, and our trade is increasing rapidly along this line.

We believe membership in the National Association is a great benefit to us, although we are usually unable to attend the meetings, owing to the season of the year being one when we are busy shipping peaches from our commercial peach orchards. We get a great deal of satisfaction from the reports, and have certainly been benefited in the matter of freight rates and legislation.

THE GRIFFING BROS. CO.,

Jacksonville, Fla. W. D. GRIFFING.

APPLE TRADE BRISK.

PERSONAL ACQUAINTANCE VALUABLE.

1st.—There has not been much difference in the class of stock sold through agents the past season as compared with previous years, except a little difference in the sale of ornamentals, but I think the time is coming when there will be considerably more of this stock planted in our southern country, especially in the cities and towns, as the latter are more prosperous than formerly.

There has been more inquiry for apple the past season from large planters of a few varieties in Virginia, but we have sold very few such orders on account of being short on apples, and our quotations we think were beyond others. Greater demand for Ben Davis than any other variety.

While we have not had so many peach this season as last, the demand has been slight, except early in the season, there was quite a demand from nurserymen for early varieties of peach in small quantities, which were sold by them through agents.

We have not received as many mail orders, although a greater demand for catalogues. I think the man who does the business will

have to look for it through agents, the only trouble is to get better prices. I think all apples that we sell are grown at a loss, and will be that way, as long as we have to throw so many away on account of Crown Gall as we have had to do the past season.

"In what way has membership in the American Association of Nurserymen benefited you?" I cannot say how I have been financially benefited. I have attended two-thirds of the meetings since 1889. Have never sold any stock at the meetings, but on my way home have stopped over with some of the nurserymen, and sold two very large bills of peach one season; think have been benefited by becoming acquainted with the different nurserymen, as well as gained more information and have enjoyed visiting their nurseries on my way home.

Richmond, Va. W. T. HOOD.

WHOLESALE BUSINESS SATISFACTORY.

ASSOCIATION BENEFITS GREAT.

The nursery business at this center has, since its beginning, been conducted practically on a wholesale basis, differing in this respect from the nursery business at other points where selling at retail and wholesale is combined. We have been confining our operations almost entirely, and will continue doing so, to the propagation on a large scale of a few leading kinds of nursery stock, namely, pears, plums, cherries and peaches, believing that this is productive of better results than are obtainable by greater diversification. I think the same may be said for the other nurseries in this vicinity. The tendency is to increase the plantings of the same kinds of stock that have been planted here in the past. The year 1906 has revealed no marked change in the character of the nursery business in this region. There is very little ornamental stock produced by the nurseries in this locality and less is being planted by them. However, there is a steadily growing demand for ornamental trees and plants throughout the South, but the demand is being met by those who make a specialty of this kind of stock.

There is no doubt but that the benefits derived through membership in the American Association of Nurserymen are very great. The annual meetings afford splendid opportunities of becoming better acquainted with nurserymen from all parts of the country and for cultivating friendship, and so make it possible, by a more intimate personal intercourse, to exchange views and gather valuable facts which could not be as satisfactorily done in any other way. Some of the most important things to be learned at the meetings of the Association are, the amount of growing stock and its condition, the prices that are likely to obtain, and the outlook of the nursery business in general. By the combined influence of the members of the Association certain beneficiary results of great moment to the growers and the trade have been achieved that could not have been secured by any other means.

HUNTSVILLE WHOLESALE NURSERIES,

Huntsville, Ala. W. F. HEIKES, *Manager.*

CALIFORNIA FORMULA FOR LIME, SULPHUR AND SALT WASH.

The following formula is recommended by the horticultural commissioners of Yuba County, California:

Unslacked lime, 40 pounds.
Sulphur, 20 pounds.
Stock salt, 15 pounds.
Water to make 60 gallons.

Directions—Place 10 pounds of lime and 20 pounds of sulphur in a boiler with 20 gallons of water, and boil over a brisk fire for not less than one hour and a half, or until the sulphur is thoroughly dissolved. When this takes place the mixture will be of an amber color. Next place in a cask 30 pounds of unslacked lime, pouring over it enough hot water to thoroughly slack it, and while it is boiling add the 15 pounds of salt. When this is dissolved add to the lime and sulphur in the boiler, and cook for half an hour longer, when the necessary hot water to make the 60 gallons should be added.

NOTE: Eastern experience has not shown any good reason for the addition of the salt and it is commonly omitted by our leading orchardists.—ED.

Fruit and Plant Notes.

DIPPING PEACH TREES IN LIME AND SULPHUR.

Professor Symons of the Maryland Experiment Station has found that dipping roots and tops of peach trees in hot lime-sulphur wash is fatal. Where the tops and trunk were dipped, these were killed. Where the roots were dipped the entire tree was killed. Where roots and top were dipped in the mixture having a temperature of 120°, nearly all of the trees were killed. Where tops and trunks only were dipped in this mixture, a good many trees were killed, but it was not fatal in every case.

Other experiments, notably at the New Jersey Experiment Station, appear to demonstrate that it is safe to use this mixture in dipping the tops and trunks of trees, if it has been cooled off before the trees are immersed.

EFFECT OF SPRAYS ON APHIS EGGS.

One of the entomologists of the New York State Experiment Station has been trying the effect of different sorts of contact poisons on aphis eggs. This has a good deal of interest for the nurseryman, because his stock is often infested with green aphis, which passes the winter in the egg form. Among the washes used were lime and sulphur, kerosene, white-wash, scalecide, and whale-oil soap. No wash was completely destructive. Some eggs escaped in every case. Those which gave the best results, were ordinary lime white-wash, and the lime-sulphur wash. Entomologists recommend as the most effective remedy, the spraying of the trees with oil sprays immediately after the aphis hatch out in the spring.

EXPERIMENTS IN FUMIGATING TREES.

The entomologist of the Maryland Experiment Station has recently reported some interesting results in the use of hydrocyanic acid gas in fumigating peach infested with San José scale. His experiment aimed to ascertain what strength and what length of fumigation were best. Fumigations were made with the following strengths of gas each for two periods, half an hour and one hour; 15 grams per cubic foot, 20 grams, 30 grams, 40 grams, 50 grams. With 15 grams, and the half hour fumigating, some scales were found alive on the infested trees. With 20 grams and over for one hour, no live scale was found in any case. This experiment suggests that the 20 gram strength for this period of fumigation is the weakest strength that it is safe to use.

PERSONALS.

B. A. Mitchell, of the eastern office, Detroit, Mich., of the Oregon Nursery Company, called on Rochester nurserymen and the growers of Geneva, N. Y., early in January.

The Alabama Nursery Company, represented by Herbert S. Chase, visited Rochester and Newark early in January.

H. J. Weber & Sons were represented in Rochester early last month by Frank A. Weber, who dropped in on his way home from New York City.

Mr. Austin, the senior member of Austin's Downers Grove Nursery, Illinois, passed away in May, 1905. The business was closed up by J. C. Alden, and has now been re organized by Messrs. Alden, and T. J. Littleford, who purchased the stock, and are conducting a general retail nursery business. Mr. Littleford is a grandson of the man who started this business with the late A. B. Austin in 1856.

CATALOGUES RECEIVED.

The Goulds Mfg. Co., Seneca Falls, N. Y. "How to Spray," a catalogue of hand and power sprayers, nozzles and fittings, etc.

R. C. Peters & Sons, Ironshire, Worcester County, Maryland. A nicely illustrated catalogue of fruit and deciduous trees. Norway maples a specialty.

James Veitch and Sons, Ltd., Chelsea, London. Large illustrated catalogue of garden and flower seeds for 1907.

Seed and Wood, Swan and Tyler, Texas Price List of peach and other fruit trees.

PENNSYLVANIA NURSERYMEN MEET.

The third annual meeting of the Pennsylvania Nurserymen's Association met in the parlors of the Commonwealth Hotel, Harrisburg, Penna., January 17th and 18th. The meeting was an extremely interesting one and there was a good attendance.

The following papers were discussed and read. "The Scale Laws of other States," by Edwin W. Thomas. "A Review of the Year, with the Situation as seen by the State," by Prof. H. A. Surface, Economic Zoologist of the Pennsylvania State Board of Agriculture. "Unscientific Notes Concerning Some Japanese Plants," by Miss Mary Morton Haines. "The Nurserymen's Duty to Horticulture," by Prof. Geo. C. Butz, of the State College of Pennsylvania. "Pointers on the Transportation Problem," by Thomas B. Meehan. "Nursery Treatment of San José Scale," by Wilmer W. Hoopes. "Methods of Controlling Scale in the Nursery," by Thomas Rakestraw. "The Necessity for Concerted Action by the Nurserymen for a Change in the State Scale Laws," by Geo. Achelis. "Present Needs, as I see it," by Abner Hoopes. "How Shall We Increase Our Membership?" by James Krewson.

All of these papers were very fully discussed. The paper by Miss Haines was espcially interesting.

Work for the year to be carried on by the Executive and other Committees of the Association was outlined and the several Committees reported successful work for the past year.

The following officers were elected for the present year:

President, Thomas B. Meehan; Vice-President, W. W. Hoopes; Secretary, Earl Peters; Treasurer, Thomas Rakestraw. Executive Committee: Edwin W. Thomas, James Krewson, Samuel C. Moon. Legislative Committee: Thomas B. Meehan, Abner Hoopes, W. W. Harper, J. A. Patterson, Geo. Achelis, Thomas Rakestraw, Wm. H. Moon.

The next annual meeting is to be held at Lancaster, Penna., in the latter part of January.

At the conclusion of the session on Friday, the members of the Association were very pleasantly entertained by the J. Horace McFarland Co., at Printing House, in Harrisburg. An inspection of the plant was made, after which the nurserymen were given a dinner by the J. Horace McFarland Co. The menus were especially unique, every one bearing the name of one of the visitors.

DISSOLUTION NOTICE.

ONARGA, ILLINOIS, Dec. 31, 1906.

The partnership agreement heretofore existing between L. J. Risser and Ludvig Mosbaek under the firm name of Ludvig Mosbaek, is hereby dissolved by mutual consent. All debts owing to the firm of Ludvig Mosbaek and all debts owing by the firm have been assumed by the new business which will be continued under the name of the Mosbaek Greenhouse Company of Onarga, the Iroquois Canning Company of which Mr. L. J. Risser is President, succeeding to the business.

L. J. RISSER,
LUDVIG MOSBAEK.

Mr. William C. Barry, of the firm of Ellwanger & Barry, of Rochester, was elected president of the Rochester Clearing House Association on January 16. Mr. Barry has as co-workers Rufus A. Sibley, vice president; John H. Gregory, secretary-treasurer; Peter A. Vay, manager.

THE NATIONAL NURSERYMAN PUB. CO.,

GENTLEMEN: I enclose herewith $1.00 in payment of subscription to the NATIONAL NURSERYMAN for the year beginning February 1st next. I will say that I am as usual well pleased with the NATIONAL NURSERYMAN. It is getting better all the time. It is just such a publication as we nurserymen need.

Wishing you a happy and prosperous New Year, I am,
Yankton, S. D. GEO. H. WHITING.

APPLE SEED

A few more bushels fresh Vermont seed, crop of 1906. Write for samples and prices.

F. H. McFARLAND, Hyde Park, Vermont.

Evergreen and Forest Tree Seedlings

Ornamental Trees, Shrubs, Etc., Etc.

WHOLESALE AND RETAIL

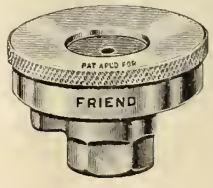
R. Douglas' Sons,

Waukegan Nurseries, Waukegan, Ill.

A TRUE

"FRIEND"

IS ALWAYS IN DEMAND



IS NEVER FOR-GOTTEN

IF YOU ARE A FRUIT GROWER, IT WILL COST YOU . . . . $1.55 TO READ THIS AD.

For many years there has been a demand for a spraying nozzle that would produce a fine spray and still handle the desired amount of solution, thus doing away with the usual cluster of small nozzles. We have worked on the idea for years and have had excellent results. The "Friend" nozzle that so many people used with pleasure last season and before had its disadvantages, but we have continued to improve on the idea until now we have the one pictured above. It is small, light, neat and durable. It has no horns, no hooks, nothing to catch or clog. Does the work of four other kinds, yet makes the finest mist-like spray under ordinary pressure. It is the nozzle that the leading fruit growers are now all using. Remember only one does the work. Brass or aluminum, price $1.50. Sent postpaid, wrapped in a neat box for $1.55. If you want to get in touch with the only firm devoted exclusively to the manufacture of spraying apparatus, hand and power, a concern who make every part of their machine, and who originate "Not Steal" all of the good points, just write your wants to the

"FRIEND" MFG. CO.,
GASPORT, NEW YORK.

Among hundreds of other good things, *The Youth's Companion* announces for early publication two articles "On Keeping Young," by the Rev. Dr. Edward Everett Hale and Col. Thomas Wentworth Higginson. How have they succeeded in "keeping young," and to what moral, physical and intellectual influences do they attribute their ability to enjoy life and hold their own in useful work at an age beyond the psalmist's limit? Doctor Hale, in his eighty fifth year, and Colonel Higginson, in his eighty-fourth, will tell the readers of *The Companion* what they know on this topic, of universal interest, and tell it in a way which, if other evidence were wanting, would prove that they are still as vivacious as the "gray-haired boys" of Oliver Wendell Holmes.

FOR SALE. A Good Paying Wholesale and Retail Nursery, good in one of the best locations in the west. A opening for the right man. If interested write to

L. M. N.. Care National Nurseryman.

LOMBARDY POPLARS.
9, 10 and 12 ft. Young Trees; branched low.

CAROLINA POPLARS.
1 in. and 2 in.

CALIFORNIA PRIVET.
Fine. 15 inches to 5 feet. 1 and 2 yrs.

PEACH TREES.

HEMLOCK, SPRUCE.
5 to 7 feet.

JOSIAH A. ROBERTS, MALVERN, PA.

GET J. WRAGG & SONS CO.'S WHOLESALE LIST. *JUST OUT.*

WAUKEE, IOWA.

WANTED

A THOROUGH NURSERYMAN AND FRUIT GARDENER

to *inaugurate* and *manage* a *nursery* and *fruit garden* in the *Artesian Belt* of the *WONDERFUL GULF COAST COUNTRY AT FALFURRIAS, TEXAS.* Our company is willing to assist in furnishing land and finances for the right kind of party. Our country is especially adapted for the raising of oranges, lemons, olives, plums, peaches, apricots, grapes and small fruits. Also English walnuts, pecans, etc. Only parties with good knowledge and best of references need apply.

FALFURRIAS IMMIGRATION COMPANY,
No. 3 West 10th St., KANSAS CITY, MO.

"SCALECIDE"

will positively destroy all soft bodied, sucking insects, including all forms of San José scale. It is simple, cheap, easily applied and wonderfully effective. Endorsed by government experiment stations, agricultural schools and thousands of fruit growers.

The above pictures are made from photographs taken at Sound Beach, Conn., in June, 1906. They were in like condition the year before. The right hand tree was sprayed with Scalecide and saved. The other tree was left unsprayed and has been killed by scale.

FOR FURTHER INFORMATION WRITE DEPT. W.

B. G. PRATT CO., Mfg. Chemists, 11 Broadway, New York, N.Y.

ALTHEAS

WE HAVE 12,000 Altheas in surplus. They have all been transplanted; some of them twice, most of them three times. All are thrifty, bushy shrubs in prime condition. The sizes are 2 to 3 feet and 3 to 4 feet. There is a large assortment of varieties; all colors; single and double flowering kinds.

If interested in the varieties, write for a complete list.

ALSO FULL ASSORTMENT OF EVERGREENS, AND DECIDUOUS TREES AND SHRUBS.

THE WM. H. MOON CO.,
MORRISVILLE, PA.

CONRAD APPEL,

Established 1789. DARMSTADT, GERMANY.

FOREST AND AGRICULTURAL SEED ESTABLISHMENTS

Extensive Desiccating Establishments for Forest Tree Seeds.

SPECIALTIES:

High Grade Forest Tree Seeds, such as Scotch Fir, Spruce, Larch, etc. Acacia, Sycamore, Maple Adlers, Honey Locust, Elm, etc. Grass, Clover and Agricultural Seeds.

Grass Seed Mixtures for Lawns and Meadows. Purveyor of guaranteed pure seeds, true to name and really of new crop, with highest obtainable purity and growth, tested by the leading Seed Testing Laboratories at Zurich, Washington, etc.

MANY HIGHEST AWARDS. GRAND PRIZE MILAMO, 1906.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

NATIVE RHODODENDRON

I have control of several thousand acres of Mountain land covered with Rhododendrons and am in a position to get these out on reasonable terms. Address, . . .

JOHN A. YOUNG, Nurseryman, GREENSBORO, N. C.

The I. N. Brown Box Clamp.

LET ONE MAN DO THE WORK OF TWO.

Try One.

ENDORSED BY LEADING NURSERYMEN.

WRITE FOR PRICES AND CIRCULAR.

Manufactured and for sale by I. N. BROWN, Atlantic, Iowa.

The Cureton Nurseries

Offer surplus APPLE, PEAR, CHERRY, PLUM, QUINCE, MULBERRY, FIGS, SEEDLING PAPER SHELL PECANS, BUDDED PECANS, ENGLISH AND BLACK WALNUT, SCUPPERNONG, JAMES GRAPES, SMALL FRUIT PLANTS, MAGNOLIA, GRANDIFLORA, CAROLINA POPLAR, CATALPA, ARBORVITAES, PINES, HOLLY, OAK, ASH, SWEET GUM, IRON WOOD, SASSAFRAS, TULIP, RHODODENDRONS, SUGAR MAPLES.

A few thousand June Bud Peach Trees.
Send for list of varieties and prices to

James Cureton, Prop., Austell, Cobb Co., Ga.

KNOX NURSERIES

CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
Vincennes, Indiana.

FOR SALE

One-third Interest in the Fonthill (Canada) Nurseries.

Our Mr. Morris wishes to retire through ill health and old age. These Nurseries comprise eight hundred acres and are thoroughly up to date; cellars, packing houses, etc., on grounds. Business a flourishing one and prospects for the future better than ever. Fifteen to twenty thousand dollars cash down, and balance on security for any reasonable length of time. This is a grand chance for a practical nurseryman. Address, for particulars,

STONE & WELLINGTON, Toronto, Ontario.

RHODES DOUBLE CUT PRUNING SHEAR

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

RHODES MFG. CO.
"Dept. 7" GRAND RAPIDS, MICH.

TREE-BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS WAUSAU, WIS.

GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

SPECIAL SURPLUS.

We have the following stock in our cellars in surplus ready for shipment as ordered and would be pleased to quote prices on your list of wants.

Apple.	Lilac.	Teas Weeping Mulberry.
Pear, Standard.	Norway Spruce.	Kilmarnock Willow.
Pear, Dwarf.	American Arbor Vitae.	Camperdown Elm.
Plum.	Balsam Fir.	Weeping Mountain Ash.
Peach.	Irish Juniper.	Cutleaf Weeping Birch.
Cherry.	White Spruce.	Black Locust Seedlings.
Grape.	European Larch.	Catalpa Speciosa Seedlings.
Currant.	Douglas Spruce.	Russian Mulberry Seedlings.
Gooseberry.	White Pine.	Import Stock.
Roses.	Maple, Silver.	Apple Seedlings.
Tree Roses.	Maple, Norway.	Pear Seedlings.
Rhododendron.	Maple, Schwedlers.	Mahaleb Seedlings.
Clematis.	Poplar, Volga.	Quince Seedlings.
Althea.	Poplar Carolina.	Rudibecka.
Spirea.	Plane, Oriental.	Pæonia.
Hydrangea.	Linden, European.	German Iris.
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We have 10,000 Norway Maple, 5 to 6 feet and 6 to 7 feet, straight stems, just the thing for transplanting, also Silver Maple, 3 to 4 ft, 5 to 6 ft. and 6 to 8 ft.

Catalpa Speciosa, "selected" and Black Locust Seed.

J. K. HENBY & SON, Greenfield, Ind.

June Buds for Cash

I offer (100,000) one hundred thousand June budded peach trees. Half Elberta 1 to 1½ ft., 1½ to 2 ft, 2 to 3 feet grades at an exceptionally low figure FOR CASH. Write to-day. This is a BARGAIN for somebody. Address

JAMES CURETON, Proprietor

THE CURETON NURSERIES, Austell, Cobb Co., Ga.

Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
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RUSS. MULBERRY 8-12, 12-18, 18 24 inch, 2-5 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. Beatrice, Neb.

Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

BEDDING PLANTS. New varieties of Geraniums; one of our great specialties in this line are Double Petunias for which our strain is well known. Hardy Shrubs, Rhododendrons, Azaleas, Roses, Hardy Climbers.

All fully described in our Wholesale List issued quarterly, and mailed free to the trade only. If you do not receive this catalogue regularly, please advise us.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

WEST CHESTER, PA.

OFFER FOR THE FALL OF 1906

a large assortment of Ornamental Trees and Shrubs, especially fine stock of PIN and RED OAKS, all sizes.

Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

SEND US YOUR LIST OF SHORTS.

Established 1853.

Philadelphia Office,
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P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

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FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS. FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

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All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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VINES

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WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

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We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Pæonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

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JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

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We have still on hand a limited quantity of Virginia Natural and other grades of Peach Seed. Send for Catalog.

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Established 1859. 117 Hanover St., BALTIMORE, Md.

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Offer large and thoroughly high class stock of the following: Roses; Rhododendrons, hardy hybrids in sorts, and Ponticum: Golden Privet; Holly green and variegated; Bamboos in sorts; Berberis; Box-Handsworth; Laurels; Lilacs; Limes; Acacia Bessoniana; Althea frutex in sorts; Aucuba; Kalmia; Osmanthus; Olearia; Thorns; Yews; Cupressus; Picea Nobilis and Nordmaniana; Retinospora; Thuya; Thuyopsis, etc. For trade list apply to our American Agents,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara

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Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

THE FRASER NURSERY

JOHN FRASER, PROPRIETOR.

HUNTSVILLE, ALA.

Offers for Immediate or Spring Shipment:

A full assortment of Chikasaw and American Plums, two years.
Japanese Plums, one year.
Sour Cherry in small grades, two years.
Everbearing Mulberry, in all grades.
Standard Pears for lining out.
California Privet, two years.
Magnolia Grandiflora, two to three feet.

Surplus List Now Ready.

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

WANTED—SITUATION

As Manager of Nursery.

Capable of growing all stock and managing all classes of help. Twenty years' experience. Eastern or Southern preferred. Best of references if required.

L. H., care National Nurseryman.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

Wanted

at once an experienced office man to take charge of staff of salesmen selling nursery stock. One who will keep business increasing. Steady position. Good opportunity for advancement. Address,

B. A. MITCHELL, No. 309 Ferguson Bldg., Detroit, Mich.

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ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

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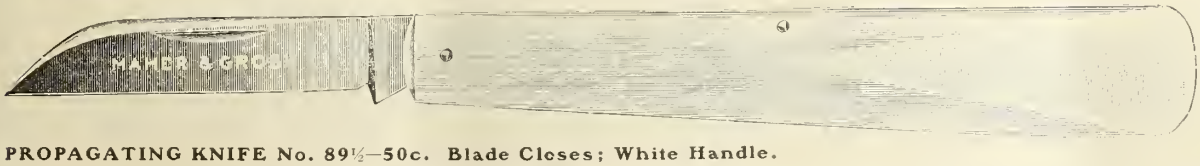
WHOLESALE GROWER OF

PEONIES

Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.

BUDDING KNIFE No. 94. Sample by mail, 25c.; 6 for $1.25



PROPAGATING KNIFE No. 89½—50c. Blade Closes; White Handle.

NURSERYMEN'S KNIVES

Hand forged Razor Steel Warranted

Nursery Pruner, 50cts.
Pocket Pruner, 60cts
Pocket Budder, 35cts.
Pocket Crafter, 40cts.

We Solicit Direct Trade

Send for 12-Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, Ohio.

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

ROSES

On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Tall, Giant Flowering and Bronze leaf varieties.

SHRUBBERY.

Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.
Spireas, Van Houtte, A. Waterer, Frobeli, Blue.
Deutzias, Gracilis, Gracilis Rosea, Lemoini.
Altheas, Jeannie D. Arc, Banner, Dble. Red and Purple.
Berberry, Thunbergii all sizes up to 3 ft.
California Privet, 3 ft. up to 6 ft.
Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.
Weigelas Rosea, Rosea Variagata, Floribunda, Candida.
Hibiscus Crimson Eye.

Send for our illustrated catalogue and trade list.

THE CONRAD & JONES CO.
WEST GROVE, PA.

ESTABLISHED 1780.

Andre Leroy Nurseries

BRAULT & SON, Directors,

ANGERS, FRANCE,

are now booking orders for

FALL, 1907,

FOR NURSERY STOCKS OF THEIR OWN GROWING, GRADING AND PACKING.

For Quotations apply to

ANDRE L. CAUSSE, Sole Agent,
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WABASH R. R.

offers unexcelled service to the

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FIVE DAILY VESTIBULED TRAINS
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FOUR DAILY VESTIBULED TRAINS
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Free Reclining Chair Cars, Pullman Sleeping Cars, Wabash Dining Cars.

Full information regarding rates, etc., cheerfully given. Address,

C. S. CRANE, G. P. & T. A., St. Louis, Mo.
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HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

BLACK LOCUST

By the Millions. They HAVE to go.

You know what that means.

CALBRAITH NURSERIES

DE WITT HANSEN, Manager, Fairbury, Neb.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING 1907,

a complete line of Fruit, Shade and Ornamental Trees, Shrubs, Herbaceous Plants, Seedlings, Maples, Ash, Catalpa Speciosa, Tulip, Poplar, Mulberry, Oaks, etc., 500,000 Black Locust in all grades. Shrubs, etc , for lining out. Special prices quoted upon application on American Elm, American Linden, Green, and White Ash, Tulip, Poplar, European Sycamore, American Sycamore, European White Ash, and a number of other trees from 6 to 14 feet. Black Locust, Norway Maple, Catalpa Speciosa and other tree seeds.

THE DONALDSON COMPANY,

WARSAW, KENTUCKY.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

FRITSCH & BECKER,

SEED MERCHANTS,

Grosstabarz, Germany.

Exporters of European Forest Trees and Fruit Tree Seeds.

Specialties: Black and Honey Locust, Mulberry, Dog Rose, Apple, Pear, Wild Cherry, Mahaleb Cherry, Plum, Quince and other seeds.

Importers of American Forest Trees Seeds.

Correspondence Solicited.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

EVERGREENS

Small Transplanted Stock.

Best Goods at Best Prices.

OLD RELIABLE EVERGREEN NURSERIES,

C. L. WHITNEY, Prop. WARREN, OHIO.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

MAHALEB BY THE MILLION

Grown by us annually; our ground and location being especially adapted to producing THE BEST CHERRY STOCKS as testified to BY LARGEST CHERRY GROWERS.

Black Locust Seedlings

OF ALL GRADES BY THE CAR LOAD.

70,000 Imported French Pear Stocks. 30,000 Imported Anger Quince Stocks. Maryabolan Stocks with orders for other stocks only. Two-year Grafted Apple, 3-4 inch and up.

BARGAIN PRICES ON

Shade Trees

IN CARLOAD LOTS

Soft Maple, Elm, Catalpa, Black Locust, Sycamore and Box Elder growing on leased ground that must be cleared this Spring.

WINFIELD NURSERIES

Office: WINFIELD, Kansas.
Branch Plants: WELLINGTON, Kansas, ROCK, Kansas.

COOPER & MONCRIEF, Proprietors, WINFIELD, Kansas.

Are You in Need of Teas Weeping Mulberry, one and two year Heads?

WE HAVE THEM AS FINE AS CAN BE GROWN.

A fine lot of New American Mulberry, 2 year, 5/6 and 4/5 feet. Also strong whips 5/6, 4/5 and 3/4 feet.

Calycanthus seedlings, 2 year by the thousand, 8/12, 12/18 and 18/24. Also transplanted 2/3 feet, bushy plants.

H. P. Roses, extra strong, home grown, budded stock.

A fine lot of Mahonia Aquifolia, bushy stock, 18/24 and 24/30 inches.

Send us your list of wants in Ornamentals. We make a specialty in this line. Always guarantee to please you.

EUCLID AVE. NURSERY CO.,

H. KOHANKIE & SON, Props., Painesville, Ohio.

Northern Red Cedars, seedlings and transplanted stock in various sizes, of choice quality.

Chickasaw or Miner plums in many sizes, Improved Stock, beautiful trees, fine fruit, also small Evergreens, Seedlings, and transplanted Moss Roses, Purple and White Lilacs and Small Fruits.

Prices reasonable. Address,

JOHN M. WISE,
"THE WISE AVENUE NURSERIES." Freeport, Illinois.

PEACH TREES

60,000 One-Year Trees in assortment of leading varieties for early Spring shipment.

OUR DELAWARE GROWN TREES ARE FINE.

THE DELAWARE NURSERIES, Milford, Del.
S. D. COLLINS, MANAGER.

When writing to Advertisers mention The National Nurseryman.

The New Hibiscus
H. Meehani Variegata

Beautiful variegated foliage of light cream and green. Large satiny lavender flowers. The *only* variegated hibiscus that *does* flower freely. Send for prices. Colored plate showing foliage and flowers —free.

Choice Shrubs for EARLY Spring Shipment

Order NOW. If your order is among those that arrive before our storage supply is exhausted, you can have the plants shipped before the frost leaves the ground if desired. High grade stock and in excellent condition. Send for price list.

Earliness is the keynote of successful transplanting. Late transplanting means maximum loss. Let us help you *do it early.*

Special!

Our annual offering of young ornamental stock suitable for 'lining out,' has struck a popular chord. Sales this year are enormous. If you have not received this list—it contains the largest assortment of young stock offered in this country—write for it *at once.* If you have received it, do not delay your order. A few items already exhausted and every day the supply grows less.

Thomas Meehan & Sons, Inc.,
Wholesale Nurserymen.
Dreshertown, Box T, Penna.

D. C. BENTON

2000 Early Ohio Grape, 2 year, strong.
3000 Moore's Early Grape, 2 year strong.
1000 Moore's Early, Grape, extra heavy.
1000 Potter's Early Grape, 2 year, strong.
500 Lutie Grape, 2 year, strong.
100 Norway Spruce, 3 to 4 feet, fine.
100 Red Maple, 8 to 10 feet, fine.
2000 Keiffer Pear, 1 year, extra, 6 to 8 feet.
3000 Apple, 2 yr., 5 to 7 ft., largely Yellow Transparent.
300 Figs, Celestial, 3 to 4 feet, heavy.

PRICES ON APPLICATION.

LAKEVIEW, MISS.

SOUTHWESTERN TREES

For the Home Beautiful, the Orchard, the Cemetery, the Park.

Teas W. Mulberry, Bungeii Catalpa,
BOTH ONE AND TWO YEAR HEADS.

Orders booked for immediate or for Spring shipment. We are below the blizzard line. Address,

TEXAS NURSERY CO., Sherman, Texas.

When writing to Advertisers mention The National Nurseryman.

WHEELOCK & CLARK,

FREDONIA, N. Y.

Grape Vines and Currant Plants

A SPECIALTY.

CORRESPONDENCE SOLICITED.

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101 best sorts **ROSES** Send your list.

H. P.: Beauty, Colomb, Diesbach, Christy, Clio, Alps, Dinsmore, Druschki, Jack, Jubilee, Masson, Plantier, Charta, Laing, Neyron, Lambelin, Caprice. **Ch.:** Queen's Scarlet. **H. B.:** Gruss an Teplitz. **H. Pol.:** Clo. Soupert. **H. T.:** A. Rivoire, B. Brown, Et. de France, Helene Cambier, Gould, Kaiserin A. V., Killarney, La Detroit, Battersea, P. & W. La France, Chatenay, Testout, Meteor, Richmond, Carnot. **B.:** Hermosa. Mrs. De Graw, Malmaison. **H. C. & R.:** Baby, Cr., Phil'a, P., W. & Y. Ramblers, B. Belle, Car. Goodrich, D. Perkins, P. Queen, R. Cottage, Seven Sisters, Tenn. Belle. **Tr.:** Wich uraiana. **T.:** Bridesmaid, Devoniensis, Brabant, Et. de Lyon, G. Gate, Ivory, Md. de Vatry, Md. Lambard, Krueger, P. & W. Cochet, M. Guillot, M. Van Houtte, Gontier, Perle, Sanfrano, Sunrise, The Bride, and many others.

N.: Cl. C Soupert, Cl. Devoniensis, Cl. Meteor, Cloth of Gold, Emp of China, Lamarque, M. Niel, M. Washington, Mrs. R. Peary., R. M. Henriette, Solfaterre, W. A. Richardson.

On own roots. THE LEEDLE FLORAL COMPANY SPRINGFIELD·OHIO· 2½ and 4 inch

---

REGRADING

has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard and Dwarf **PEAR, QUINCE,** ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

A LOT OF VERY FINE APPLE TREES

for the Wholesale Trade. Also some fine Apple Scions.

EAST TENNESSEE NURSERY CO.

R. F. D. No. 2. Clinton, Tenn.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,

WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

BUY TREES GROWN IN **Southern Ohio.**

FULL LINE, FRUIT AND ORNAMENTAL.

CATALOGUE FREE. SALESMEN WANTED.

SPECIAL PRICES ON APPLE AND PEACH,

W. T. MITCHELL & SON, BEVERLY, OHIO.

Martin's September Peach

I have the best thing ever introduced in the way of a late peach, and want to get them scattered all over the country, therefore I will sell only 100 trees to any one person. Write for description and prices at once. Supply of trees limited. Address,

THE CURETON NURSERIES, Austell, Ga.

JAMES CURETON, Prop.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.

133 READE ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

55,000 **"Palmetto"** ASPARAGUS PLANTS three years old. Strong, first-class roots in every respect. Will sell cheap as they are on ground that must be cleared next spring.

NO CHARGE FOR PACKING.

D. C. RUPP, Shiremanstown, Pa.

The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES,

Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

I Offer for Spring 1907 **Choice Nursery Stock**

Cherry, 2 years, ¾ and up, E. Richmond, Dyehouse, Mt. Morency, Black Tartarian and Windsor.
Standard Pears, 2 years, all grades, Bartlett, Kieffer, Seckel, Clapps and Duchess D'Ango.
Dwarf Pear, 2 years, all grades, Bartlett, Duchess.
Quinces, 2 years, all grades, Bourgart, Champion and Angers
Plum on Plum all grades. European and Japans, General List Varieties.
Also one year Standard and Dwarf Quince, Pear, Cherry, Plum and Apple.

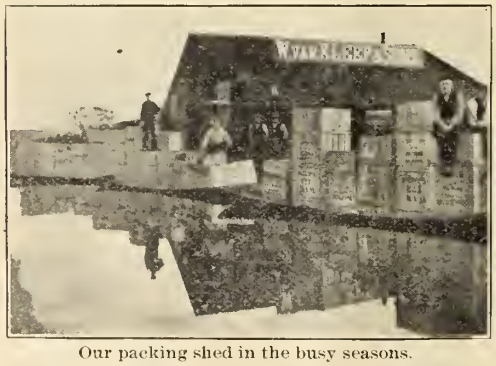
JAMES M. KENNEDY, Dansville, N. Y.

W. van KLEEF & SONS,

Wholesale Growers of

Nursery Stock for the American Trade,

Boskoop, Holland.



Our packing shed in the busy seasons.

Ask for our SURPLUS LIST it will certainly interest you.

200,000 PEACH TREES.

ONE YEAR AND JUNE BUDDED. LEADING VARIETIES.—EXTRA FINE LOT.

Also APPLE, PEAR, PLUM, QUINCE, ROSES, SHADE TREES, &c.

Our prices will bring your order.

SMITH BROTHERS, - - - - - Concord, Ga.

WOOD LABELS

FOR NURSERYMEN AND FLORISTS

SAMPLES AND PRICES FOR THE ASKING.

DAYTON FRUIT TREE LABEL CO.

SOUTH CANAL STREET, DAYTON, O.

W. T. HOOD & CO.

Old Dominion Nurseries,

Richmond, Va.

OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Kieffer especially.

Natural Peach Pits, Crop 1906.

Write for prices.

WE HAVE TO OFFER

500 Bushels of Peach Pits

This year's stock. Order early. Write for prices.

W. R. ROACH CO. Inc., Hart, Mich.

The Best Salesman

Trade Mark "Brother Jonathan." Registered in U. S. Patent Office.

for the nurserymen is the advertising columns of a publication which reaches *actual buyers* of nursery stock, and you can reach over fifty thousand of this class of farmers every month through the columns of

THE FRUIT GROWER

ST. JOSEPH, MISSOURI.

Send for sample copy of our handsome January number, with cover and insert in three colors, and then arrange an ad for the February (spraying) number, forms for which will close January 20th. Our New Booklet "Get Your Share of the Harvest," sent free on request. Remember,

Sworn Circulation, 50,000 Copies,
Rate, $3.50 per inch.

THE FRUIT GROWER CO., St. Joseph, Mo.

Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF

NURSERY and FLORISTS' STOCK

IN THE UNITED STATES, INCLUDING **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

Field Grown Hardy Roses

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

Eugene Furst Rose.

A Few of the Items We Have in Large Supply

SPECIAL PRICES ON EARLY ORDERS. Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata, Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. ¶ Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

51 Years **1200 Acres** **44 Greenhouses**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose Frau Druschki, mailed **FREE** on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. **Rochester, N. Y.**

The Geneva Nursery

Established in 1846

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.,
GENEVA, NEW YORK

When writing to Advertisers mention The National Nurseryman.

ROSES

Largest and completest assortment in the country; nearly all the leading standard and scarcer varieties can still be supplied in *either own-root or budded* plants, as may be preferred; and all are of our own growing. We do not handle the soft, pithy, imported roses; those who know, insist on having the "J. & P." roses —the kind that live and grow and "*make good.*"

We grow other stock, too, in general assortment, with particular attention to *Ornamentals;* just now we can offer inducements to those in want of

Clematis	**Ampelopsis**
Barberry	**Japan Quince**
Peonies	**Blue Spruce**
Shrubs	**Arbor Vitae**
Vines	**Shades**

Our Bulletins, showing exact quantities available, will be mailed at intervals through the season to those asking for them. Use printed stationery in writing as we send prices to The Trade only. We are headquarters, and those buying direct save middle profits.

Jackson & Perkins Company
NURSERYMEN AND FLORISTS,
Wholesale Only.
NEWARK, (Wayne County,) NEW YORK.

Let Us Give You Some Especially Low Prices

ON THE FOLLOWING FIRST CLASS STOCK.

LEMONS, AMERICAN WONDER,
FICUS ELASTICA,
KENTIA BELMOREANA,
KENTIA FORSTERIANA,
LATANIA BORBONICA,
GARDENIA FLORIDA,
GARDENIA VEITCHII (For forcing)
BIOTA AUREA NANA,
(BERKMAN'S GOLDEN ARBOR VITAE.)

This year we have Ten Acres of This Popular Conifer.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. **Over 450 Acres in Nurseries.**
MENTION THIS AD.

When writing to Advertisers mention The National Nurseryman.

Oregon Nursery Co.

Salem, Oregon

MADE BY J. HORACE McFARLAND COMPANY, MOUNT PLEASANT PRESS
HARRISBURG, PENNSYLVANIA

SEE OTHER SIDE

We Reach Across the Continent

And the Great Northwest finds the catalogues made by the Mount Pleasant Press of Harrisburg serviceable in getting good business.

Certain wise nurserymen are NOW arranging for catalogues to be made in a leisurely manner, and delivered before July 1. Why are they wise? Because (1) they get the most carefully considered work, (2) they have the catalogue in full and early time for Fall business, and (3) they save money by using the cheapest time of the year for our work.

We will make especially favorable arrangements for such work, and it will be a great pleasure to do some work without rushing!

The paper market just now is uncertain—except as to *lower* prices, which are certain not to come!—and quotations are subject to advance without notice. The scarcity and high prices of the materials for making paper warrant us in suggesting that nurserymen who can arrange within the month of March for any work to be completed *before January 1, 1908*, are likely to save considerable money.

If our friends delay and have to pay from 10 to 20 per cent more, we can say, "We told you in time."

For the best catalogues in America, address us always

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

TREES

The Largest And Finest Assortment On the Pacific Coast, Of

Fruit Trees, Grape Vines, Roses and Ornamental Stock

WE ARE OFFERING, FOR THE FIRST TIME, FOUR OF BURBANK'S NEW AND VALUABLE CREATIONS, OF WHICH WE ARE THE SOLE PROPAGATORS.

Santa Rosa Plum — Rutland Plumcot
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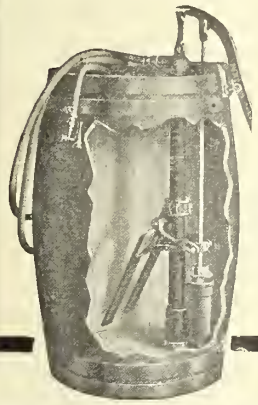

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A good stock of the following varieties, in seedling and transplanted sizes.

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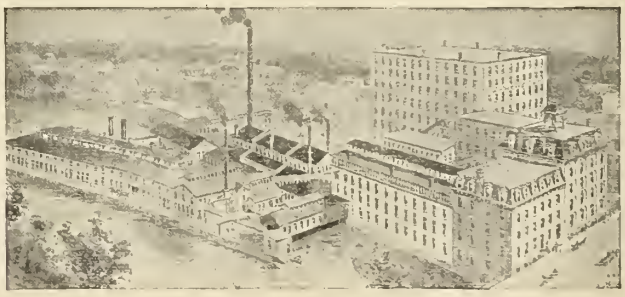

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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ASSOCIATION MATTERS.

OUST THE INTERLOPERS, ADVISES A DISTINGUISHED POMOLOGICAL MAGAZINE.

I am informed by correspondence that a somewhat ill defined movement is supposed to be on foot, suggested by a pomological-trade-nursery paper, having in view the modification of article I of the Constitution of the American Association of Nurserymen. This article reads: "This Association shall be known as the American Association of Nurserymen, and shall embrace nurserymen, seedman, florists, horticultural implement makers, and dealers in supplies."

The zealous promoters of this movement are said to claim that an undue amount of the time of the convention and a disproportionate share of the business is absorbed by persons who are not nurserymen, and that the influence of these men should be restricted. The proposition as I understand it discussed, is to make two classes of membership, active and associate. Active membership is to be restricted to real nurserymen, that is growers of stock, and carries with it full membership privileges in the Association. Associate membership is designed for others than nurserymen, (the goats,) who are engaged in allied businesses, and permits attendance at the convention, but gags these men when matters relating to the Association's welfare are discussed. Presumably there would be two membership rates, one for the "sheep" and the other for the "goats."

Now, let us see how this would work out. If I interpret the rule rigidly, all but growers of nursery stock would be excluded from the active class, and I imagine it would take an excellent type of a patent lawyer to properly place some of the candidates. Dealers, agents, and importers would be barred. Well, perhaps this would be a good thing, and again perhaps it would not. From the financial standpoint the Association would certainly suffer. If dealers and agents are allowed to remain within the sacred precincts, and all others excluded, the Association would then erect this rule for the purpose of shutting out 5.7% of its permanent membership. This is as near as I can figure it from the membership roll. Now, this small group of men must be a dangerous or objectionable lot to call for such radical measures. Let us see of what the group is composed and what sort of a numerical showing the different sections of the group make.

Importers stand forth! Ten answer the call in the badge book. These ten represent 1.9% of the membership of the Association for 1906. But they are represented by half that number in the Association meetings. They are "mighty good fellows" as some one says, and on occasion might be necessary fellows to the furtherance of the nursery business, I say. Some of them have rendered service to the Association equal to that of the largest growers. Their interests are essentially identical with those of the grower. They co-operate with him, they are affected by legislation and transportation rates in the same way.

The next group of members that are to be considered are certainly a bad lot, and without any extenuating graces. These are the newspaper men. But after all, a sort of necessary evil, don't you think? In this aggregation we find florist papers, horticultural journals, pomological magazines, a daily newspaper, in addition to the nurserymen's trade paper. These represent also 1.9% of the membership of the American Association of Nurserymen. Now, brethren, I am right with you on the proposition to suppress this whole gang of ten. For these ten irresponsibles and irrepressibles, make a class for reprobates and put them in it! At conventions keep them behind the bars, muzzle them if you will. Associate membership is altogether too good. I speak feelingly on this group because I am of it myself.

Now, continuing our sorting process, we still find a few outcasts that must be dealt with according to their iniquities. There are at least four lithographers whom nurserymen are known to consort with during plate book season, a couple of lively label manufacturers, a lonely box strap manufacturer, and three desperate entomologists. These form another group of dangerous characters, that need watching and regulating. Remember again that they wield an influence of 1.9% in the councils of the Association, and are therefore not to be trifled with.

Analyzing the proposition, we see how the question stands. We see it in all its varied colors and its potential dangers. The thoughtful, the conservative member will regard it with due gravity, I am certain, and will consider the advisability of revamping the constitution for the purpose of regulating this 5% element, or 3% element, or 2% element, whichever is decided upon, so that the virtues of our Association may not be endangered in the coming years.

I have treated this radical proposition lightly because I can hardly conceive of such a matter receiving serious consideration at the hands of an organization made up of broad gauge men of the liberal caliber which characterizes the membership of the American Association of Nurserymen. It is a subject for the jester rather than the serious thinkers.

AN OCCASIONAL QUILL AND SOME-TIME MULE-DRIVER.

WORK OF PUBLICITY COMMITTEE.

A letter from James M. Irvine, chairman of the Publicity Committee of the American Association of Nurserymen, states that his committee has sent notices to every horticultural

paper in the country, calling attention to the advantages of membership in the association, and urging all interested in the nursery business to send their membership fee to Secretary Seager. In this way, it is hoped to reach many nurserymen not now members of the Association. Mr. Albertson is also preparing some circulars to be sent to outside nurserymen, urging their support of the organization, whose work within the past few years has done so much to benefit the nursery interests generally.

Mr. Irvine reports that letters received by him from President Harrison, Mr. Albertson and other officers of the Association are to the effect that the one thing to be desired at this time is a larger membership and a larger attendance at Detroit, for at that meeting will come up matters which concern every nurseryman in the country. Accordingly, the claims of the Association will be kept before the public, through the various horticultural papers, until the meeting at Detroit in June.

Every member of the Association should help to increase the membership, for if the Association accomplishes all that it should, it ought to have the support of everyone interested in nursery work. The first persons who send their membership fee to Secretary Seager will received at once copies of the report of the Dallas meeting, so that for the first year's membership they will receive reports of two meetings. They will also receive a special bulletin, soon to be issued by Mr. Albertson, in regard to freight and express shipments.

"A larger membership and a business convention at Detroit" seems to be the cry of the officers and members of the Association at this time.

Members of the American Association of Nurserymen are making an effort to greatly increase the membership of the organization before the thirty-second annual meeting is held at Detroit, Mich., in June of the present year. Membership is $5 per year, and any person interested in nursery work is eligible for membership.

During the past three years, this Association has done a work which benefits all nurserymen, whether members of the Association or not, and it is believed that every nurseryman will want to be a part of the organization when once its benefits are explained to him.

One important work which has been done is to secure a change in freight classification of nursery stock, which results in great reductions in freight rates. These reductions benefit every firm which ships or receives any kind of nursery stock, for the changes refer not only to shipments of trees, but also to seedlings, stocks, grafts, etc., so that every firm is benefited by the change.

The meeting at Detroit, in June, will likely be the largest and best the Association has ever held. The program committee is arranging a splendid program, devoted to practical phases of nursery work, and the entertainment committee promises some good things for the benefit of the visitors. Detroit is a beautiful city, and the meeting there four years ago was so successful that the members are very glad to go back there again this year. Every nurseryman in the country, large or small, is invited to send his membership fee to Secretary Seager, and prepare to attend the meeting in June. It will pay anyone interested to do this.

PROGRAM COMMITTEE.

Chairman Stark of the program committee is arranging so that the meetings of the protective associations will be held in the afternoon. The two evenings during the convention will be devoted to some special form of instruction and entertainment. It is proposed that one evening shall be devoted to an illustrated lecture giving characteristic features of nursery work in different parts of the country. Mr. Ilgenfritz is looking after the entertainment feature, and promises something agreeable and attractive.

PRESIDENT HARRISON GIVES CREDIT WHERE CREDIT IS DUE.

The nurserymen of the country find it necessary to look closer after their rights. When a freight bill is incorrectly presented, many report now that the R. R. officials are anxious to correct it. This is due to a change of attitude. One of the most notable concessions the R. R. companies have given is that won by Chas. Sizemore, Traffic Manager for Stark Bros. & Orchards Co., Louisiana, Mo., which goes in effect Feb'y 27th between Huntsville and Louisiana, changing the minimum car weight to 16,000 lbs. instead of 20,000.

In looking up some records of the Association, I find that Mr. Jas. McHutchinson was placed upon the transportation committee in June, 1904, so that the Association would have a member in New York City to protect its interests and avoid traveling expenses.

Prior to 1906, import shipments of nursery stock were provided for under the Import Commodity Tariff, but on Jan. 1st, 1906, this tariff was repealed, throwing such shipments back on the official classification, rating such stock 1st class in L. C. L., and 2nd class in C. L. lots.

Mr. Jas. McHutchinson and Mr. Irving Rouse appeared before the official transportation committee in New York City, each with samples of imported seedlings, each making forcible speeches before 21 men representing 21 railroads, laying all of the information possible before the committee demanding a rate of 2nd class, less 5% on L. C. L., and 5th. L. C. on all nursery stock and seedlings. After some months of consideration on the subject by the committee, their requests were granted, and as a consequence the above rates now prevail. Every nurseryman should be grateful to these men for their good work. It shows the value of the right kind of men on a committee and the great good the committees have been to the Association.

I am glad to report that the committees appointed by me have been doing good work in their respective fields. Mr. Maloy is pushing horticulture, and he deserves the assistance of every nurseryman. Judge Stark will map out with one of the best programmes ever placed before the Association. J. M. Irvine is making known through the press what is wanted, viz., your attendance. J. W. Hill, our vice-president, is always ready and has made good with his committee looking after the guarantee fund, which we are glad to say will not be called for. Mr. McFarland is always ready to respond when called on for the benefit of the Association. Mr. Ilgenfritz expects to make you happy at the new hotel in Detroit. Mr. Meehan will get out the exhibitions. "The word from Hale on tariff is keep what you have." Mr. Berckmans has his eye on legislation, and Mr. W. C. Reed alert to the transportation interests.

Now, we want a long pull, and a strong pull, and pull all together for Detroit to have the best attended and best business meeting ever held in the history of the Association.

ORLANDO HARRISON,
Pres. American Association of Nurserymen.

EDITOR NATIONAL NURSERYMAN:

What is this we hear about excluding those who are not nurserymen? Would that mean our good friend Chase of New Hampshire who makes labels. To do that would take a whole lot of the joy out of our life and I am not ready to do it. Would it mean to exclude J. Horace McFarland, who is also lots of fun and lots of use, which Mr. Chase is also? For my part, I do not see any reason why all of us strong nurserymen, with beards on our faces, should be in the least afraid of the influence of a few such men as these and others that I know. Of course we have the votes and can do it, but to what end, comes up the question? I can see no use in any talk about it at present. If at any time outsiders try to interfere with the proper workings of the Association there will be doubtless ways and means to protect us against their wiles. Yours not anxiously,

WESTERNER.

Miami Valley Nurserymen.

Doings of Societies.

THE MIAMI VALLEY NURSERYMEN'S ASSOCIATION IN ANNUAL BANQUET

Pursuant to a notice in regular form, that a certain "delivery" would be made at the Phillips House, Dayton, the Miami Valley Nurserymen's Association held its second annual banquet on the evening of February 8. At 4 p. m. the Association held a conference over trade conditions and prospects, Mr. Scarff presiding. Promptly at 6 o'clock, they repaired to the Banquet Hall where the following menu was served with orchestral accompaniment:

I hereby order of The Miami Valley Nurserymen's Association, for the purpose of improving my "personal" property, the following "Goods" to be delivered at the Phillips House, Dayton, Ohio, Friday evening, February 8, 1907, at which time and place I hereby agree to receive these "Goods" and carefully "plant" the same. The M. V. N. A. guarantees that this stock, if properly cared for, will produce abundantly the rich experiences of sociability and friendship, but is in no wise responsible for any premature germination resulting from planting in conditions of excessive moisture.

No. Ordered	Varieties	No. Ordered	Varieties
Several	Blue Points.	Sufficient	Cranberry Sauce.
Some	Roostertail Dressing.	A quart	Green Peas.
A little	Celery.	A peck	Hash Brown Potatoes.
Plenty of	Green Turtle Soup.	Some	punched Benedictine Punch.
A number of	Olives.	A Pinch	Hightoned Waldorf Salad.
A couple of	Radishes.	A handful	Thin Wafers.
A big	Salmon Trout, Broiled.	A brick	Ice Cream.
Some	Maitre D'Hotel.	A pound	Assorted Cake.
A quantity	Parisienne Potatoes.	Enough	Roquefort Cheese.
Abundance	Roast Vermont Turkey.	A cup	Coffee.

Customers are requested to carefully check up this list as the Association will not be responsible for any voids, aching or otherwise, that may be discovered after this stock is "planted," or for any of the previously prepared holes that may remain unfilled after this delivery.

No "Goods" replaced.

Signed.....

The table was beautifully decorated with a vine covered rail fence, enclosing an orchard with an abundance of fruit and flowers within.

After the dinner, under the capable direction of Mr. S. R. Fergus, Toastmaster, the following toasts were responded to:

"Gall"—Mr. W. N. Scarff. Mr. Scarff discoursed entertainingly on "Gall" as found in the nursery, in the office, on the part of customers and others with whom nurserymen have to deal. The worst cases of this dread disease seems to be exhibited by the Railroad and Express Companies, and the lawmakers in certain states seriously infected with the "restriction" and "bond" virus.

The humor of the occasion was furnished in Mr. Frank Freeman's laughable account of "John Schmidt's experiences with Tree Missionaries"—the supposed agents of the various firms in the Association. His "raps" were nicely landed, and contributed greatly to the hillarity of the occasion.

SOME OF JACOB SCHMIDT'S EXPERIENCE WITH TREE MISSIONARIES.

(The following is a brief sample of Mr. Freeman's interesting toast:)

"Well Katrina, you remember that Star postal cards we got long in Septober about them Trans lescent Opal trees. Well, them bunch of trees came to hand, all right all right, I shust come from planting them out in the tater patch.

I wonder if them trees will turn out no better than whot we got from them other nursery fellows? Say Katrina, you shust ought to have seen thot bunch of trees. It was something snipshus.

They were tied up in one big bundle up high and large around as you vas. That straw was something fine and I put it away for you to put under the sitting room carpet.

There was some kind of canvass over the roots that was shust sewed on like some dressmaker did it. Oh! you remember them fine pictures that long legged feller had from Star Nurseries, Ecxema, O.

Oh my, didn't they look fine? I kept that postal card they fastened on the string to tell where it was going to. It had the finest big red apple on that ever was. You could see yourself in.

You know that tall long legged feller said: We would have no use for looking glasses when those trees commenced bearing. All you had to do was to rub your sleeve over it this way and there was your photograph. Well, anyhow I always liked red apples and now we are going to see what we got.

I do hope they don't turn out like those berries we got from that Carlisle feller. My! when I thinks about that pruty pictur book we got from him, it makes my mouth water. Shust think about those white blackberries and thornless gooseberries, tree strawberries, high bushed cranberries, everbearing raspberries.

When I think what them fellers will do to you, it almost makes me forget that little poetry about 'forgiving your enemies.'

Them was the queerest thornless gooseberries you ever heard of. The thorns all come out on the berries and you had to cut them off before you could eat them. And that tree strawberry, well, I hain't going to say anything about them. Anyone who would buy such truck as that ought to get his eye teeth cut.

But that high bush cranberry; I always was fond of cranberry sauce, especially about Thanksgiving time. My! but it was just what I had been looking for. It didn't look much like a cranberry bush; but that little story in the book said 'it didn't resemble its parent.' I always did think it took too long for them trees to come to bearing size or else we ought to got some male plants or somethings to fertilize ours mid; as something is wrong sure. It blooms every spring. Oh! such pruty white flowers, white as snow and round as a ball; makes me think of snow balls.

I shust spect nothing else but what it will kill itself bearing whenever it does commence fruiting. I believe that Scarff fellow is all right when it comes to cranberries; but he can't gooseberry me any more."

(This is a sample of the gentle roasts handed out to the Ohio Nurserymen.)

"Our Honored Guests" was responded to by Mr. J. W. Gaines. The guests of the evening were Mr. E. Albertson of Indiana and Prof. A. F. Burgess, chief inspector for Ohio. Mr. Gaines voiced the sentiments of the Association in paying a high tribute to these gentlemen. The self-sacrificing and efficient services to the common good rendered by Mr. Albertson was fully recognized and fully appreciated. He remarked that Mr. Albertson not only worked, but labored with great diligence and persistence, and accomplished results; in other words got there with both feet, "his" feet at that, which was in itself a great achievement.

The tribute to Inspector Burgess was not less hearty. Prof. Burgess has impressed the nurserymen with his high sense of honor and as an official who desires to be fair and just at all times. This of course means no laxity or favoritism whatever, as he is keenly alive to the purposes of his official position. It is plain that nurserymen as a class are not antagonistic to proper and reasonable safeguarding the interest of the general public, but against unreasonable absurd and drastic legislative measures and their administration, they have a ponderous, selfcocking, repeating, and everlasting kick.

"Creeping Things." Prof. Burgess was happy in his response to this toast. He spoke feelingly in referring to the co-operation in his sometimes unpleasant work, extended by fairminded nurserymen. He talked at some length along practical lines.

"Packing House Idyls." In responding to this toast the "Bard of Phoneton" naturally dropped into poetry, as follows:

PACKING HOUSE IDYLS.

By N. H. Albaugh.

1. When Adam named the animals
   He had a heavy job,
   He lined them up in two long rows,
   My gracious! what a "gob",
   The Hippo-pot, the antelope,
   The Nosirorus Rhi,
   The Camelopard, the giraffe,
   And all else 'neath the sky.

2. Now if a tree man had the job
   That Adam had, why he
   Would grab a pencil—"let 'er fly",
   And in a min-u-te
   Would have some hundreds rattled off
   Which very few could read,
   But what's the diff—, for *trees* bear fruit
   While *labels* don't, indeed.

3. The roses *blue* are getting scarce,
   The blue is fading out,
   The baby ramblers half grown up
   Are running all about,
   The Utah Hybrid, long since dead,
   —The tombstone says "here lies",—
   If that was all the Stone could say
   It would be less surprise.

4. But now the "scale" is coming in
   And causing bigger scares
   Than lions, tigers, wolves, and snakes
   Or two of Teddy's bears,
   When lime and sulphur, well applied
   Would make the rascals run
   Or some of Mack's new "scale-i-cide"
   Would clean 'em out like fun.

5. The wooly aphis can't be sheared,
   How great the pity too,
   For if it could what crops of wool
   The "bugging" men could "do".
   The gall has done its greatest work
   On peach trees large and small.
   The only thing now to be feared
   Is some smart "bugman's" gall.

6. But what's the use to fret and groan
   At things we can't prevent,
   For next year there'll be something new,
   I'll bet a bogus cent.
   So let 'em come, for come they will,
   But whether great or small
   We'll have our fun with these new chaps,
   And knock 'em out—that's all.

J. W. McNary, in responding to "the Miami Valley Nurserymen's Association" closed the formalities of the evening, but the nurserymen immediately took up in an informal manner for discussion certain drastic bills now pending in the legislatures of Indiana, and West Virginia

Those present were Mr. W. N. Scarff of New Carlisle; Messrs. T. J. Dinsmore and S. R. Fergus of Tippecanoe City; Messrs. N. H. Albaugh, Frank Freeman, Peter Bohlender, Fletcher Bohlender, Joseph Warner of Phoneton; Messrs. Ira Crow and Harry Wolf of Fidelity; Messrs. John Siebenthaler, L. M. Barr, Wm. Kurtz, Radley Waymire, F. G. Withoft of Dayton; Mr. M. F. Barnes of Hamilton; Messrs. M. Barnes and J. J. Barnes of Cincinnati; Messrs. J. W. and M. A. Gaines of Xenia; Mr. E. Albertson of Indiana, Prof. A. F. Burgess of Columbus and J. W. McNary of Dayton.

ON THE PACIFIC COAST.

CITROUS FRUIT GROWERS.

A very important citrous fruit institute was held at Riverside the last week in January. About two hundred citrous fruit growers were present. The meeting was addressed by Horticultural Commissioner Jeffrey, by Ex-Governor Pardee, and Professor E. J. Wickson, director of the California Experiment Station.

PACIFIC COAST NURSERYMEN.

The papers of the Pacific Coast still echo with items describing the recent joint meeting of the California Fruit Growers and the Pacific Coast Nurserymen's Association. Mr. F. W. Powers, president of the latter organization, presided at several sessions. Committees from the nurserymen and fruit growers were struck, and these authorized to meet for the purpose of formulating legislative measures favorable to the interests of both associations.

Among the special features of the meeting was a visit to the home grounds of the famous plant breeder, Luther Burbank. They also visited the noted Franquette walnut orchard, and many other places of interest within traveling distance of Hanford. The *Northwest Horticulturist* for January gives a number of the papers presented at this meeting in full.

AMERICAN CARNATION SOCIETY.

This live and active association met in Toronto on January 23-24. The meeting, one of the largest in the history of the society, was interesting technically, and delightful socially.

The exhibit of flowers was also extensive. The silver medal for one hundred blooms of any variety or color was won by the Cottage Gardens Company. The variety shown by this company was Alma Ward. The silver cup of the Canadian Horticultural Association for six varieties was won by F. R. Pierson Company. Other prize winners were W. J. Lawrence, Eglinton, Ontario; A. J. Guttman, Chicago Carnation Company; J. E. Haynes, and the Dale Estate. Officers elected, president, Fred H. Lemon, Richmond, Ind.; vice-president, Peter Bisset, Washington, D. C.; secretary, Albert M. Herr, Lancaster, Pa.; treasurer, Fred E. Dorner, Lafayette, Ind.

Alabama Horticultural Society re-elected Mr. W. F. Heikes President. At the recent meeting of the Alabama State Horticultural Society, held in Montgomery, a very successful convention was reported. Mr. W. F. Heikes, who has been in the president's chair for four years, was re-elected unanimously, and Mr. R. S. Macintosh was again chosen secretary. The executive committee is composed of the following members: M. C. Scott, Montgomery; B. C. Turnipseed, Flora, and H. O. Sargent, Hamilton. The committee on legislation consists of J. H. McCary, Birmingham, B. C. Turnipseed, Flora, and M. C. Scott, Montgomery. The next meeting of the Association will be held in Birmingham.

NURSERY BUSINESS OF LOUISIANA AS AFFECTED BY INSPECTION.

WILMON NEWELL.

The second year of the nursery inspection work of the State Crop Pest Commission of Louisiana has just been completed, and the nursery conditions throughout the State are very good.

Forty-nine nurseries have been inspected—just 21 more than were inspected last season. In the case of 14 out of this 49, San José scale in slight quantity was found either in the nurseries themselves, or so close as to endanger the nursery stock by spreading, while Chaff scale on orange was found in one. To date all except five nurserymen have followed the directions of the Commission and have succeeded in eradicating the scale from their premises. In the case of the delinquent 5, Certificates of Inspection have been refused until the premises are thoroughly cleaned up, kept under quarantine a sufficient time, then reinspected, and pronounced apparently free of scale by the inspector. Most of these premises will probably be cleared of scale in the near future, as almost all of the nurserymen of Louisiana fully realize the importance of getting rid of these pests. Forty-three Certificates of Inspection have been issued, these certificates stating that the premises are apparently free of dangerously injurious insects and plant diseases. No nurseryman in the State of Louisiana can legally ship nursery stock unless he has been granted one of these Certificates of Inspection.

Since this inspection system was inaugurated last season, the amount of nursery stock grown in the State has increased almost 400%. Last season the inspectors of the Commission examined 683,550 growing trees and shrubs. This season the number has been increased to 2,172,632. Below is given a tabulated statement of the different kinds of plants grown, arranged according to the number of each kind:

Strawberry Plants,	1,005,000	Fig,	15,294
Peach,	499,667	Plum,	8,481
Field-grown Rosebushes*,	129,000	Magnolia,	3,366
Apple,	93,659	Ferns†,	1,000
Pear,	66,809	Camellias†,	820
Forest and Shade Trees††,	65,121	Palms†,	575
Pecan,	55,522	Arbor-vitæ,	430
Grape-vines,	52,764	Miscellaneous†,	85,657
Orange,	40,342		
Privet,	28,100	Total,	2,172,632
*Citrus Trifoliata***,	21,025		

*Includes only field grown bushes for sale as such, and does not include roses grown in greenhouses by florists.
††Does not include catalpas propagated on catalpa plantations.
**Does not include *trifoliata* stocks held by nurserymen for budding.
†Does not include plants of these sorts grown in greenhouses and by florists.

In addition to the above, several thousand orchard trees which were growing in close proximity to nurseries were examined.

Obituary.

DEATH OF MRS. N. H. ALBAUGH.

The numerous friends of Hon. N. H. Albaugh, of Phoneton, Ohio, who is so widely known in nursery circles, will be pained to learn of his recent bereavement by the death of his wife, who for fifty-two years had shared with him the joys and sorrows incident to life's journey.

The home which they early constructed for themselves and over which Mrs. Albaugh presided with such good old-time matronly dignity, became long ago not only widely known for its hospitality, but one of exceptional influence in the community.

Some years ago Mr. Albaugh composed a number of poems, which he grouped in a small volume and dedicated them to his wife in the following:

"To her,

Who has walked by my side, adown life's vale, through sunshine and shadow, where, without her help, life might have been a failure, this little volume is most affectionately dedicated."

From this volume the officiating minister selected the following, which was read during the funeral service:

COMING HOME.

Hang up the lamp, dear wife, for me—
A beacon light;
For I am coming home to thee,
To thee, to-night.

Out from the cold world's din and strife,
With care oppress'd,
Home, to a true and loving wife,
For peace and rest.

Three pairs of roguish eyes so bright,
Were wont to peer
Into the gath'ring, dark'ning night,
For father, dear.

Three pairs of toddling, pattering feet
Would hurrying come
To ope the door and papa greet,
To hearth and home.

One pair of feet lie stiff and cold,
Beneath the sod;
One pair of eyes on earth have closed,
To ope with God.

Heavy the load of this world's care,
How often made;
Heavy the load—and hard to bear
Without His aid.

The whitening hair, the furrowed brow,
May tell of years;
Our hearts are young—our love, I trow,
Will grow with years.

Through sunshine fair and shadow dark
We'll grope our way.
Keeping in view the shining mark
Of perfect day.

When life is pass'd, and we, at last,
Reach that long shore,
With longing eyes and yearning hearts—
Our toils are o'er.

May we see afar, like glitt'ring star,
Through mist and gloom,
The soul, in joy, of our bless'd boy,
To guide us home.

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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ROCHESTER, N. Y., MARCH, 1907.

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NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.: secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

FREE SEEDS AGAIN.

Notwithstanding the vigorous campaign which has been carried on for the past year, notwithstanding the thousands of letters which have been written to representatives protesting against the free seed farce, notwithstanding the adverse report of the Committee on Agriculture against this method of distributing seeds, the foolishness is to be continued for at least another year. Recent despatches inform us that the House reversed the decision of the Committee, and voted for free seeds with an overwhelming majority. It is astonishing how picayunish supposedly broadguage statesmen can be. It will take another year at least before this type of imbecility is wiped off the official calendar.

SPRAYING A NURSERY PRACTICE.

Many nurserymen do not realize the importance of keeping their fruit stocks absolutely free from fungous diseases, so restrictive in their influence of free vigorous growth. It is almost impossible at the present time to grow good healthy pear, apple and mazzard cherry stocks without controlling the serious leaf spot diseases which attack them so generally. How often we see fields of rose stocks and budded roses badly affected by black spot and other fungous diseases. These parasites that arrest growth and stunt the plant may in large measure be controlled if not exterminated by the use of the copper salt remedies.

It would pay all extensive growers of nursery stock to keep a spray specialist on their grounds throughout the growing season. Let it be the business of this man to watch the stock and promptly institute preventive measures whenever injurious insect or fungous disease makes its appearance. He should have spray outfits under his control, and a force of men at call whenever needed; for in no type of work is the old adage truer than in this, than an ounce of prevention is better than a pound of cure. Such a man will readily earn his wage many times over. The agricultural colleges of the country are training men for work of this character and it is this type of man who is best qualified to undertake the necessary sanitary work connected with tree and plant growing.

LOSS OF NITROGEN FROM SOILS.

How to maintain the nitrogen in our soils has long been a problem of prime importance with the agriculturist. It is the most expensive element of plant food as well as the most elusive. All good systems of farming are based on a study of the best methods of conserving nitrogen. Within a few days, press dispatches suggest that before very long we shall be drawing directly upon the great store of atmospheric nitrogen for the use of our plants. We have been doing this indirectly for a good while by the use of leguminous crops. Whether there is anything in the recent claim or not, we are unable to say at the present moment. We can only hope that the representations are accurate.

The Minnesota Experiment Station has been recently investigating the loss of nitrogen in wheat lands, and finds that the main loss is not due to the exhaustion of nitrogen by the wheat crop itself, but to the oxidation of the humus. This means the breaking up of the humus. In this decomposition, nitrogen is liberated and escapes. This escape may be made

in the form of gas or it may leach away in the form of nitrates into the drainage. The whole point of the investigation is that a chemical analysis showing the amount of nitrogen used by a crop is not an accurate indication of the amount of this element that is needed by that particular crop. We should use nitrogen considerably in excess of the specific demands as indicated by analysis.

POMOLOGICAL HISTORY OF NEW YORK.

At the last meeting of the Western New York Horticultural Society, the suggestion was made that a committee on pomological history should be appointed, whose duty would be the collecting of records giving the origin and history of important happenings in the pomological world. Such records would take into account the place of origin of important fruits, of the beginnings of important fruit industries, as the planting of the first orchard in any leading fruit region, or the first vineyard in any vine-growing section. New York has an enviable record in the matter of developing varieties of fruits, which have been of great value in the orcharding industry of the country. Some of the finest apples in our entire list have been produced within the borders of New York. Esopus Spitzenburg, Northern Spy, Wagner, Primate, Newtown Pippin, and among vines and small fruits the list is very lengthy.

President Barry appointed a committee to take charge of the work of collating information on this subject, and the function of the committee will be to ascertain the place of origination of these fine old varieties, and make a report upon the feasibility of erecting tablets or other suitable memorials, which shall properly commemorate the place and time of the origination of these fruits, that have been such important factors in furthering commercial and amateur fruit growing in this country. All persons who are interested in this attractive piece of historical research are requested to send any items of information in their possession to the chairman of the committee, Mr. C. S. Wilson, Department of Horticulture, College of Agriculture, Ithaca, N. Y.

MEMBERSHIP IN THE ASSOCIATION.

The NATIONAL NURSERYMAN has been asked to discuss the question of modifying the constitution of the American Association of Nurserymen so that only persons directly connected with the nursery business should enjoy active membership. This paper will not presume to offer an opinion on this subject. It is a matter for the nurserymen themselves to decide. The editor is not a nurseryman and has not reached a point where he feels warranted in advising the profession in regard to the conduct and policy of the business of their official organization. If there is need for the change no doubt the good sense of the majority of the members will insist upon it, in which case we sincerely hope the move will be for the best.

The suggestion that a change is needed seems to be based upon the assumption that a few persons not directly engaged in the business of growing or handling nursery stock have been active in the affairs of the Association. This may be true. It then remains to be shown that their influence has been injurious to the welfare of the Association. In this case, measures should be taken to relieve these men of their responsibilities and place the work where it belongs. This is a matter of association policy. Such an alteration would probably affect half a dozen men—it being understood of course that brokers and agents were eligible to active membership. Whether in view of these facts the change would be worth while is the main question. There is little fear of the small minority controlling the association if the nurserymen themselves take the interest they should at the annual conventions. Finally if the subject is thought worthy of serious consideration, we hope it will be passed upon deliberately by the nurserymen themselves, notwithstanding the obvious fact that the question has been raised by outsiders and presented to the public with a flourish and display of yellow journalism scareheads worthy of a larger and more impressive issue.

HORTICULTURAL EXPLORATION.

It is encouraging to feel that governments and institutions are exploring countries in the interests of things that are alive and growing, as well as things that simply stand for echoes of the past. It is the fashion to send out expeditions to investigate buried cities, burrow in the debris of the pyramids, and explore the unknown corners of the "cradle of the race." Records of remote ages are unquestionably of great importance. They give background and perspective for the practice and point of view of the present. But nevertheless we feel as if special reason for congratulation were occasioned when we hear of an expedition sent to foreign country for the purpose of securing new acquisitions in the way of plant products. The Division of Seed and Plant Introduction of Washington has an explorer in China, who has been doing excellent work. They have agents in different parts of the Old World constantly on the watch for desirable and promising forms. Recently Prof. Hansen of the South Dakota College of Agriculture returned from a tour of Russia and Turkestan, where he searched for valuable forage plants, and we are glad to learn that his search was not unsuccessful.

In addition to the efforts of the Department, institutions are now taking it up, and we learn that the Arnold Arboretum of Boston has sent an emissary, Mr. E. H. Wilson, to China, for the purpose of collecting plants and seeds for introduction to this country. We are glad to know that the Arboretum is financially able to do this work. Most members of the American Association of Nurserymen recall with a great deal of pleasure the illustrated address on the Arboretum and its work, given by Mr. McFarland at the West Baden meeting. This address did much toward putting the plant growers of the country in thorough sympathy with the aims and objects of that excellent institution.

WHAT OTHERS SAY.

THE NATIONAL NURSERYMAN PUB. CO.

Enclosed find check for one dollar, a renewal subscription. I should hate to get along without the NATIONAL NURSERYMAN. Am well pleased with it.

With best wishes, truly,

G. W. NICHOLS.

THE NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Gentlemen :—We enclose $1 for a year's subscription to the NATIONAL NURSERYMAN. Do not want to dispense with this publication.

FORD SEED CO.

Transportation.

TO INCREASE RATES ON FREIGHT.

RAILROADS TAKE STEPS TO MEET INCREASES IN WAGES.

The *Record-Herald* of Chicago is reported as saying that the executive officials of the eastern railroads controlling many hundred miles of lines, recently took action to reimburse themselves for late increases in the wages of their employees.

A vote is now being taken on the proposition to increase the rates on nearly all the main line commodities 10 per cent. by increasing the minimum which it is permitted to load into a car. The roads initially interested extend throughout the territory east of this city and north of the Ohio river clear to the seaboard and north into Canada. In this territory freight rates are controlled by the Central Freight Association, whose jurisdiction extends to Buffalo and Pittsburg, and the Trunk Line Association, whose jurisdiction extends from those cities to the Atlantic ocean.

The vote which is being taken following a recommendation by the two associations is being sought by a letter of advice setting forth the plan and giving the reasons therefor. It was stated last night that if the plan met with any opposition, it would not be carried out. If the plan is successful in the East, it will undoubtedly be followed by the lines south of the Ohio river and then by the lines to the Pacific ocean.

EDITOR NATIONAL NURSERYMAN,

Sir:—Through your columns we would like to urge every nurseryman in the U. S. to become a member of the American Association, whether he attends the meetings or not. No nurseryman, no matter how small, can afford to do without the help of the Association, who is constantly working for the good of the trade; we will give one instance:—

In the Southern territory, 12 years ago, nursery stock in boxes less than car lots, paid second class, or Huntsville to Knoxville, 60 cts. per cwt., freight on a box weighing 900 pounds, cost, $5.40: to-day the same box pays 4th class, or Huntsville to Knoxville, $3.96, thus a saving of more than 25% on small shipments.

12 years ago car lots paid fourth class with a minimum of 20,000, or Huntsville to Knoxville, $88.00 per car, to-day the rate is sixth class with a minimum of 16,000, or Huntsville to Knoxville, $43.20.

These figures tell the story.

The changes were brought about by work of the American Association. We presume other sections have benefited as much as the South. It is a question of working together for the common good. There is some expense connected with this work, paid by the Association; the Association depends on membership fees for funds; cost of membership is slight. There ought to be one thousand members.

ALABAMA NURSERY COMPANY,

Huntsville, Ala.

We are just finishing one of the most successful seasons we have ever had in our business. The demand for trees has been very good, the only trouble we have not had enough to fill our orders. We think there will be but little surplus stock carried over on this coast for next season, especially in California. Yours truly,

Chico, Cal. F. W. POWER.

A citrous nursery for sale: Those who are interested in the south, or in the growing of sub-tropical fruits should correspond with Reasoner Brothers, Oneca, Fla., in regard to the purchase of an established citrous nursery. Members of this firm, who are so widely and favorably known in tropical regions are desirous of disposing of a branch nursery which they do not feel like continuing further owing to the extension of their home business at Oneca.

CATALOGUES RECEIVED.

Vincennes Nurseries, Vincennes, Ind. Grade count list of nursery stock, spring, 1907.

Easterly Nursery Co., Cleveland, Tenn. Grade count surplus list, January, 1907.

F. W. Dixon, Holton, Kans. Twentieth annual catalogue and price list of small fruit plants. Strawberries a specialty.

Vaughan's Seed Store, 14 Barclay St., New York City. Vaughan's Book for Florists, spring, 1907.

Cushman Power Sprayer Co., Lincoln, Neb. Catalogue of orchard sprayers.

Calhoun Nursery Co., Calhoun, Ga. Wholesale price list, fall, 1906.

J. A. Simmers, Toronto, Canada. Annual seed catalogue.

J. G. Harrison & Sons, Berlin, Md. 1907 catalogue of peach, apple, pear, shade and ornamental trees, strawberries, etc.

Peter Henderson & Co., 35 and 37 Cortland St., New York City. 1907 catalogue of "everything for the garden."

D. McNallie, Sarcoxie, Mo., 1907 catalogue and price list. Strawberries a specialty.

The Fraser Nursery, Huntsville, Ala. Surplus list, Jan., 1907.

Old Colony Nursery, Plymouth, Mass. Trade list, spring, 1907. Roses, vines, evergreens, and deciduous trees and shrubs.

Steele, Briggs Seed Co., Toronto, Ontario. Book on seeds, plants, and bulbs. "How and what to grow," being a comprehensive catalogue of flower and vegetable seeds.

Wallace Machinery Co., Champaign, Ill. Catalogue of power sprayers.

Mount Arbor Nurseries, Shenandoah, Iowa. Wholesale trade list, spring, 1907.

Henry A. Dreer, Philadelphia, Pa. Dreer's Garden Book for 1907. Illustrated catalogue of vegetable seeds, flower seeds, garden and greenhouse plants, hardy perennial plants, etc. Two hundred and twenty-four pages.

W. Atlee Burpee & Co., Philadelphia. Burpee's Farm Annual. Illustrated catalogue of vegetable and flower seeds for 1907. Two hundred pages.

Chattanooga Nurseries, Chattanooga, Tenn. Catalogue of fruits and ornamental trees and shrubs for 1906-7.

Conard & Jones Co., West Grove, Pa. New floral guide, 1907.

F. C. Heineman, Erfurt, Germany. General seed catalogue, 1907.

Turkey Creek Nurseries, Macclenny, Florida. Catalogue for 1906-7 of fruit trees, conifers, and flowering shrubs, etc.

Glenn Cliff Nursery, J. Marvin Miller, Prop., Winchester, Tenn. Surplus list No. 4 of apple, plum and peach trees.

Kelway & Son, Langport, Somerset, England. Kelway's "Manual of Horticulture," fifty-fifth edition, 1906-7. Three hundred and eighty-four pages. A handsomely illustrated catalogue of hardy plants, bulbs, vegetable and flower seeds.

The Van Dusen Nurseries, W. L. McKay, Proprietor, Geneva, N. Y. Price list of nursery stock for late fall and spring shipments.

One of the most attractive catalogues which has come to our desk recently is that of Frederick W. Kelsey, 150 Broadway, New York. The pamphlet is agreeably illuminated with accurate photographs of type specimens of ornamentals, and types of ornamental gardening. It contains the technical and common names of trees and shrubs, and an index of the same.

Josselyn's Grape Catalogue for 1907. In this catalogue which gives an extensive list of varieties of grapes, currants, gooseberries, and raspberries, one of the striking features is an appreciation of one of the most conscientious and successful grape growers of the period. As a frontispiece a photograph of the late George W. Campbell appears, and a few lines of warm appreciation to this man who worked so industriously and conscientiously for the advancement of grape culture in this country. He was the originator of Campbell's Early, one of the varieties Mr. Josselyn is pushing.

Messrs. George and Dayton, of Storrs & Harrison, Painesville, Ohio, have just returned from an extensive tour in tropical regions. In the course of their journeyings Texas and the Mexicos were visited.

Note and Comment.

PEAR BLIGHT IN CALIFORNIA.

The latest report by Prof. M. B. Waite of the Division of Pathology at Washington, who has had charge of the pear blight campaign on the Pacific Coast, is not very encouraging. Mr. Waite finds that under certain conditions it is almost impossible to hold the disease in check, and that secondly, he has had great difficulty in securing unanimous and concerted action on the part of the growers. If one grower cuts out all the blight, destroying the badly diseased trees and practicing the best sanitary methods, and a careless grower alongside neglects his orchard, there is no help for the thorough worker. Until all the growers wake up to the gravity of the situation, and unite in a campaign for the complete eradication of all infested stock, there is little or no hope of checking the spread of the disease. The adobe soils districts are more seriously affected than the silty sections.

FREE SEEDS TO BE CONTINUED ALONG THE SAME OLD LINES.

On January 29, after an extended discussion of this time-worn travesty on governmental paternalism, the House in committee of the whole voted to continue the free distribution of farm, garden and flower seeds by the same silly methods which have characterized this foolishness in the past. The sum of $238,000 will be used in the purchase and distribution of packets of seed by the representatives of the farmers throughout the country. The desire of those who understand the real interests of the agricultural community is to use this money in purchasing and importing new and promising varieties of decorative and economic plants ; but the full measure of sanity on the subject of seed distribution has not yet been approximated by the majority of the representatives.

KIEFFER AS A STOCK.

R. E. Burton, of California, writing in a recent number of the *California Fruit Grower*, states that in an experience in top-grafting winter Nellis with Kieffer, the fruit proved unsatisfactory. A few years later he top-grafted the Kieffer with Bartlett, leaving about a foot of Kieffer wood between the winter Nellis stock and the Bartlett scion. Branches which were thrown out from the Kieffer wood blighted as badly as the Bartlett top.

FEDERAL APPROPRIATIONS FOR AGRICULTURE.

The appropriation for the federal Department of Agriculture is growing each year. The amount asked for, which will probably be granted for the coming year, is $8,125,720. This is exclusive of $3,000,000 to cover the cost of meat inspection. Special sums have been set aside for particular pieces of work, as $150,000 to conduct the campaign against the gypsy moth in New England, $190,000 against the cotton boll weevil in Texas, and half a million for the enforcement of the pure food law the country over.

PEACH TREE DISEASES IN CALIFORNIA.

California nurserymen are agitating the enforcement of the laws governing the shipment of nursery stock into their state. These laws are very stringent, covering such diseases as yellows, rosette, and many of our common insects. The following is an abstract from a circular which is going the rounds of the California papers ; having special reference to peach diseases.

ROOT BORER.

" During the past season a great many peach trees which were found infected with the eastern peach root boror arrived by rail from the eastern states. All these trees were either returned or destroyed as this pest does not exist in this state. This pest is a foe to peach, nectarine and apricot, and no doubt also the plum and prune grown on peach stock. The following twenty-five states, with Colorado as doubtful, are said to contain the eastern peach root borer : Maine, Rhode Island, Delaware, Maryland, New York, Pennsylvania, Virginia, Ohio, North Carolina, South Carolina, Georgia, Alabama, Florida, Mississippi, Louisiana, Texas, Kentucky, Michigan, Indiana, Illinois, Missouri, Kansas and Nebraska."

THE OUTLOOK FOR THE APPLE INDUSTRY.

JOHN CRAIG.

I am often asked if there is a reasonable promise for a business man without much experience in farming or fruit growing, of making a success in apple orcharding. If he is a good business man and has had good business training, he is so much the better equipped to engage in this industry. Many farmers and fruit growers are on the land not because they have any special love or any peculiar fitness for it, but by reason of the operation of circumstances over which they have had practically no control. Is it surprising then that many failures in farming should arise when so many men drift into it without any special call and lacking any particular love for the work? Then again the farmer and fruit grower may have a love for the land, and a knack for doing things practical, as working with their hands, but may be devoid in large measure of a business sense. These men make a living, but fail to secure a competence.

The business man then has this to his advantage, that the affairs, the financial side are likely to be handled by him easier and more efficiently than by the farmer without this training. He is more daring in his ventures. This quality is not always desirable and may be easily overdone. But then again we often see the penny wise and the pound foolish policy exhibited by the man who is accustomed to the transaction of affairs only on a small scale.

The business man lacks on the practical side. He can make this up with readiness if he applies himself diligently. After these preliminary considerations, we have the character of the business itself, that is orcharding to pass upon.

In the first place, an apple orchard is an investment which matures rather slowly. It is unlike the small fruit plantation, the vineyard or the cranberry marsh, which becomes productive in two or three years. The apple orchard must be developed to a certain stage before it begins to give returns. On the other hand, once established it continues or should continue to be productive for a long time, and its ability to yield crops should increase in this region (New York) each year until the full half century mark has been passed.

There are two ways to begin orcharding. One is to purchase an established bearing or perhaps mature orchard ; the other is to grow the orchard. Each plan has its own special advantages, and each has some disadvantages. In the case of the established orchard we have an investment which is immediately productive. The investment, however, may have been injured by past treatment, and in order to bring it back into form and good condition a considerable expenditure may be required. But this outlay will be quickly returned. It also requires a full fledged knowledge of the methods of orchard management, which includes the fertilizing of the soil, the pruning and training and care of the tree, the handling and marketing of the crop.

If the beginner decides to grow his orchard he will need enough capital to establish the enterprise, and he will require enough versatility in connection with the crop production to grow and harvest secondary crops which will pay for the cost of development and maintenance during a preliminary period. But with good management this preliminary period may not be an unproductive era. No orchard area should be characterized at any time during its life by a barren period. The permanent trees should be interplanted with quick growing varieties, and the interspaces occupied with secondary crops of the annual type. It is quite feasible to grow these secondary crops in a profitable manner, and at the same time regularly increase the value of the permanent planting. An orchard of apples planted on suitable ground, well drained, properly cared for, will add each year of their growth up to twenty years at least ten per cent. to the value of the area which they occupy.

It is gratifying to note that business men and capitalists are becoming more and more interested in orcharding enterprises and in the management of land as safe and reasonable investments. The example of conservative and intelligent fruit growers over the country is making these points clear and emphatic. Capital is not slow in following the lead. Notwithstanding the appearance and presence of serious enemies, I believe that apple orcharding enterprises in New York and New England never presented a more favorable outlook than at the present moment.

CITRUS FRUIT GROWING IN CALIFORNIA AND FLORIDA.

SOME STRIKING CONTRASTS.

The two great citrus fruit sections, California and Florida, while alike in certain features, present more contrasts than resemblances. It was recently my pleasure to visit the two successively for the purpose of investigating the citrus fruit industry, and comparison was inevitable. The striking contrasts in the pursuit of this industry in the two sections seem to result from a few fundamental differences, especially those of climate, inhabitants, and capital.

The climate of the citrus sections of these two states, while similar in being more or less free from frost—though never from the fear of it—differs widely in humidity. California is so dry and arid that irrigation is essential, while Florida is humid even to excess. This large difference alone is the cause of many lesser ones. For instance, the hot, baking sun of the cloudless California summer makes a dust mulch necessary to conserve the moisture, hence clean and thorough tillage is the rule in the citrus groves. Evaporated water can, to be sure, be replaced as necessary by irrigation, but water is too expensive and often too scarce to be used recklessly, and as much as possible is conserved by cultivation. But in Florida no such compelling reason exists for thorough cultivation, and the groves are consequently weedy, grassy, and untidy. The humidity promotes not only weediness, but an inclination in the man to let them have their way ; and slackness having thus insinuated itself, appears again in the carelessly pruned trees, whose roughness contrasts strongly with the beautiful symmetry and uniformity of California trees. Then again, irrigation requires skilled and intelligent labor, and this kind appeared to be commoner in California than Florida. The Japanese is certainly far superior to the negro.

California is full of well-to-do people, who have gone there because of ill health, and attracted by the outdoor life have turned to orange growing. The industry has thus been built up to a large extent by people of more than ordinary training, ability, and means, and this is strongly reflected in the strictly modern methods of handling the groves and marketing the crops. Coming from the cities, the growers had no preconceived notions about fruit raising, but depended largely on the publications of the agricultural press and experiment stations, with strikingly successful results. Being thus guided, and acting on sound business principles under the direction of an extensive and remarkably successful Fruit Union, they have concentrated their efforts on a very few varieties, like the Washington Navel and Valencia among the oranges, and the Lisbon, Eureka, and Villa Franca among the lemons, producing immense quantities and absolutely controlling the market for these sorts. In Florida the varieties of oranges grown are far more miscellaneous, and do not make as imposing a figure on the market, even comparatively to the amount produced. Very few lemons of any sort are grown, but more attention is given to grape fruits than in California, and the best and intensest development of the citrus industry in the state promises to be along that line. There is noticeably more enthusiasm among the growers of California than those of Florida. In the West every man is a promoter—whether a real estate dealer or not—eager to show the visitor about, and fill his ear with the golden prospects of the country ; while comparatively little of this aggressive and exultant spirit is displayed in the south. The average Florida grower is more often a son of the soil, reluctant to adopt new machinery and methods, and content to put a product on the market a shade or two less than perfect.

The frequent large size of the citrus groves in California is very impressive to the visitor, several thousand acres in some cases being under one management, and indicates unmistakeably the presence of abundant capital. In Florida, on the other hand, groves of a hundred acres are rare indeed, and small plantations the rule. Thus it has come about that on the one hand superior and uniform methods of handling, marketing, and advertising the fruit have been evolved, while on the other the individual taste or caprice of the small grower has had the upper hand, and uniformity in such matters as grading and packing is still unattained.

In each of the particulars examined, then, Florida is inferior to California, even as she is in the amount of citrus fruits produced ; and though she is less developed than her rival, and for many years will continue to reduce the interval between them, the supremacy of California seems indefinitely secure.

L. B. JUDSON.

Assistant Professor of Horticulture,
Cornell University.

VOLUNTEER APPLE ORCHARDS IN NEW YORK.

The volunteer apple orchard movement, instituted co-operatively by the Western New York Horticultural Society, the nurserymen of the state, and the Department of Horticulture at Cornell University some four years ago, has been moving along steadily and making substantial progress, as set forth by the report on the subject presented by Professor Craig at the last meeting of the Western New York Horticultural Society.

This movement aims to gather accurate information regarding the adaptation of varieties of apples to the different soil and climatic conditions prevailing in New York. It aims to present reliable information on the commercial or special market value of some of the newer varieties. It also aims to present reliable data on the cost of bringing an orchard to bearing age.

There are two types of volunteer orchards under observation. One is the orchard set upon its own stock, and brought into bearing in this way. The other is the orchard which has been top-worked, on a variety or varieties which in the past did not prove profitable.

There are ten volunteer orchards now established. These cover the state from east to west and already a considerable mass of interesting information has been collected. This second report on the volunteer orchard movement has been included in the forthcoming volume of the proceedings of the Western New York meeting. The work will be pushed vigorously in the future, and much confidence is placed in the value of this movement as an important stimulating agent in the growing of apples in the Empire State.

The following nurserymen have co-operated by furnishing stock : Chase Bros., Rochester, N. Y.; Ellwanger & Barry, Rochester, N. Y.; Nelson Bogue, Batavia, N. Y.; Elmer Sherwood, Odessa, N. Y.; S. D. Willard, Geneva, N. Y.; Smiths & Powell, Syracuse, N. Y.; Isaac Rogers, Dansville, N. Y.; Stark Bros., Louisiana, Mo.

Report of Western New York Society, 1907.

NATIONAL NURSERYMAN PUB. CO.

Gents :—I enclose $1.00 for renewal of my subscription to NATIONAL NURSERYMAN.

Outlook for plant trade is good, with inquiry heavier than last season at this time. Stock apparently is wintering firm.

C. E. WHITTEN.

CONDENSED SPRAY FORMULAS.

The following list includes the standard spray mixtures needed and used by the nurseryman. Nursery stock should receive more attention in the matter of spraying than it does. It should be insured against insect and fungus attack by paying a premium in the form of a spray just as life and property are insured by paying a premium on a certain sum of money.

The standard remedy against fungus diseases, as leaf spot of stocks, roses and the like, is Bordeaux Mixture. The standard remedy against soft-bodied sucking insects is some form of oil spray, while sucking insects protected by a scaly covering are best treated with Lime-sulphur wash. These formulas appear in the Cornell spray calendar 244.

FORMULAS.

BORDEAUX MIXTURE.

Copper Sulphate.....3 lbs.
Lime.....4 lbs.
Water.....40-50 gals.

Prepare by dissolving the copper sulfate and slaking the lime separately. Dissolve one pound of blue stone in each gallon of water. This is done best by suspending the blue stone in a bag at the surface, as the copper salt in solution sinks rapidly to the bottom. The milk of lime is prepared by slaking the quick-lime without drowning, and adding enough water to make one gallon for each pound of lime. In mixing to make Bordeaux, stir the stock solutions, and dip out one gallon for each pound of either material required, *always taking the precaution to add the full amount of water between the other two ingredients.* If the concentrated solutions are put together, a curdled lumpy mass will be formed, which will clog the nozzles and be hard to keep in suspension. If the milk of lime is lumpy or granular, it should be strained through a sieve to avoid clogging the nozzles. An excess of lime does no harm, but an excess of copper solution brings injury to the foliage. A test for Bordeaux is made with ferrocyanide of potassium. A few crystals of this substance, known to the drug trade as yellow prussiate of potash, are dissolved in a few ounces of water. When Bordeaux is made, it may be tested by letting three or four drops of this solution fall upon the surface. If there is too much copper salt, the ferrocyanide solution will turn brown. Lime should be added till the test liquid fails to change color. Even then it is best to add more lime to make a sure thing. The standard fungicide, leaf spot, mildews, curl leaf, etc.

AMMONIACAL COPPER CARBONATE.

Copper Carbonate.....5 oz.
Ammonia (26° Beaumé).....3 pints.
Water.....45 gals.

Make a paste of the copper carbonate with a little water. Dilute the ammonia with 7 or 8 volumes of water. Add the paste to the diluted ammonia and stir until dissolved. Add enough water to make 45 gallons. Allow it to settle and use only the clear blue liquid. This mixture loses strength on standing. For fungous diseases late in the season.

COPPER SULPHATE SOLUTION.

Copper Sulphate..... 1 pound
Water..... 15-25 gallons

Dissolve the copper sulphate in the water. It is ready for use. *This should never be applied to foliage, but must be used before the buds break.* For peaches and nectarines, use 25 gallons of water. For fungous diseases, but now largely supplanted by the Bordeaux mixture. A much weaker solution has been recommended for trees in leaf.

LIME, SULPHUR WASH, 1-1-4.

Lime.....15 lbs.
Sulfur.....15 lbs.

Water sufficient to bring the boiled product up to 50 gallons.

General Directions for Preparing. The lime and sulfur must be boiled or steamed.—Mix the sulfur into a thin paste, using only enough water to break up all the lumps. Place about 15 gallons of water in a kettle, or boiling tank, or vat, if steam is employed, and heat to the boiling point. Add the sulfur paste to the boiling water and mix thoroughly. Next add the stone lime—which should be previously weighed out and ready for use—and while the lime is slaking stir often enough to keep the lime and sulphur well mixed. In this way the entire heat of the slaking lime combined with the heat of the boiling water will dissolve much of the sulfur. *As the sulfur goes into solution a rich brick-red color will appear.* While the lime is slaking, water may have to be added to prevent boiling over. Where steam is employed it will have to be turned off until the lime is partly slaked. An excess of water, more than 15 or 20 gallons at the most, is not desirable. After the lime is slaked continue the boiling for from forty minutes to one hour, or more if necessary to get the sulfur well dissolved. (The above recommendations are by the Georgia Board of Entomology.)

This is essentially a scale remedy, but it has an important fungicidal effect as well. When used on peach trees early in spring before buds swell it prevents curl leaf in addition to killing scale. It must not be used during the growing period.

HELLEBORE.

Fresh white hellebore.....1 ounce.
Water.....3 gallons.

Apply when thoroughly mixed. This poison is not so energetic as the arsenites, and may be used a short time before the sprayed parts mature. It is important to have fresh powder. For insects which chew.

KEROSENE EMULSION.

Hard, soft or whale oil soap.....½ pound.
Boiling soft water.....1 gallon.
Kerosene.....2 gallons.

Dissolve the soap in the water, add the kerosene, and churn with a pump for 5 to 10 minutes. Dilute 4 to 10 times before applying. Use strong emulsion for all scale insects. For such insects as plant-lice, mealy-bugs, red spider, thrips, weaker preparations will prove effective. Cabbage-worms, currant-worms and all insects, which have soft bodies, can also be successfully treated. It is advisable to make the emulsion shortly before it is used. For San José scale it is recommended to use 1 pound of whale oil soap and dilute in proportion of one part to six of water. Especially effective in summer to kill the young and tender lice. For summer use against San José scale on nursery trees this is probably the safest and most effective insecticide to use.

TOBACCO WATER.

This solution may be prepared by placing tobacco stems or leaves in a water-tight vessel, and then covering them with hot water. Allow to stand several hours or until color of strong coffee, dilute the liquor from 3 to 5 times. For aphis and soft bodied insects on nursery stock not so effective as whale oil soap.

WHALE OIL SOAP.

Dissolve in hot water if wanted quickly. For use on dormant trees for San José scale dilute 2 pounds to 1 gallon of water; for summer use on scale or aphis 1 pound to 5 to 7 gallons water.

SOLUBLE OR MISCIBLE OILS.

These are preparations of petroleum oils, for sucking insects (scale, etc.), mixed in such a way as to emulsify readily when poured into water. They are put on the market under various names. They are ordinarily diluted 12 to 15 or more times. That is, one gallon of the "soluble oil" is mixed with twelve or fifteen gallons of water. After stirring, it is ready for use. In this respect, they are exceedingly convenient and commend themselves to the orchardist. This spray, however, costs considerably more than lime-sulphur. Some have used these materials with excellent results, others report complete failure, while others find that the results are inconstant in character. They are to be used during the dormant period in the strengths mentioned or in the growing period greatly diluted, one to twenty-five or one to thirty. In these strengths, some injury to foliage has been

reported. We recommend each grower to use these mixtures experimentally until their efficacy has been more definitely established.

See our advertising columns for notice of "scalecide."

PUMPS AND SPRAY MACHINERY.

There are now many types of spray machinery on the market. Each person must find out what is best adapted to his own needs. The best is none too good. Pumps wear out quickly. They should be made of non-corrodible parts, they should be powerful. Endurance and power are two important qualities. For this type of machine, we refer our readers to the firms advertising in the pages of this journal. Buy the best. Do the work thoroughly.

The E. C. Brown Grape Sprayer.

FUMIGATION COMMENDABLE.

P. J. PARROTT, NEW YORK STATE EXPERIMENT STATION, GENEVA, N. Y.

The fumigation of nursery stock before shipment is now practiced by many nurserymen in the eastern states. This is done in response to the requests of fruit growers who believe, and justly so, that many destructive pests may be distributed through the trade. The growing demand for treated stock makes the fumigatorium, or "gas house," a necessary adjunct to the modern nursery plant, if one wishes to cater to public demands or to successfully meet competitors practicing fumigation. While it is true that the treatment of stock by hydrocyanic acid gas is not an absolute guarantee of the immunity of the trees from insect pests, still it is a commendable practice. To obtain the best results the work should be done under the direction of a competent person, who should select the stock to be treated and direct the various details of compounding the chemicals and handling the fumigatorium.

Spraying Potatoes.

The essentials for fumigating nursery stock with hydrocyanic acid gas are: (1) Chemicals; (2) a suitable vessel in which to mix them; and (3) an air-tight box or chamber to hold the stock while it is being treated.

CHEMICALS AND FORMULA.

The chemicals that are needed are: (1) Fused cyanide of potassium; (2) sulphuric acid; and (3) water. The cyanide should be guaranteed 98-99 per cent., while the best grade of sulphuric acid, having a specific gravity of at least 1.83, should be used. These chemicals may be purchased from local druggists or from wholesale dealers in druggists' supplies. Tap, well, or rain water, that is clean, may be used. In handling the chemicals care should be exercised not to spill the acid upon the clothing or the person. The cyanide is a deadly poison, and should be carefully labelled and stored, when not in use, in a safe place to prevent accidents.

The following formula is recommended for use in fumigating clean, well-matured dormant stock. For each one hundred cubic feet of space in the room use

Potassium cyanide..... 1 oz.
Sulphuric acid..... 2 ozs.
Water.. . ..... 4 ozs.

For combining the chemicals one should use earthenware dishes or jars of about one gallon capacity. There should be one vessel for each pound of cyanide. If more than one jar is used, distribute them at even intervals in the room. Place in each jar the required amount of water, and then gently pour in the acid. When the nursery stock is in place and everything is ready for the final operation, drop in the cyanide which is contained in a paper bag. For the safety of the operator, each bag should be suspended by a string over the jar containing the liquids. The main supporting string may be operated from the outer door, so that all the bags may be lowered at the same time in their respective vessels. The door should then be closed, displaying a danger card. After thirty or forty minutes of fumigation, all doors and windows should be opened and the room should be ventilated for at least ten minutes before anyone enters. The gas is most deadly, and one should be very careful not to get a breath of it.

The room or box to be used for the treatment of stock should be air tight. Provision should be made for quick and thorough ventilation. The fumigatorium should be in a convenient position, and should be located so that the escaping gas will not interfere with other operations of the nursery. The stock should be dry when fumigated.

An Orchard Sprayer without the Tower.

Correspondence.

THE COMBINATION GRAFT—A METHOD OF PROPAGATING WEAK-ROOTED TREES.

Dear Sir:

I notice with interest in the December number of the NATIONAL NURSERYMAN an article on the Indiana apple orchard which was double worked, and now has own rooted Spy trees for its stock. I have tried a plan which has the same purpose in view, which I think a good one. It is true, I have only experimented with Grimes Golden, but I am satisfied that it will work well with other kinds that like this are deficient in root system.

My method is to splice a short piece of seedling root on a six-inch Spy scion. Then splice a short scion of Grimes on the upper end of the Spy scion. This makes a graft ten to twelve inches long, which should be planted so that the upper splice is even with the top of the ground. After planting, bank fresh earth around the upper or Grimes scion. This keeps it from drying out. I have had good success with this method, and they make a very good union. I have also tried setting a scion on top of a yearling Spy, but don't like it as well as the combination graft. We want the strong vigorous healthy Spy root, and we get it by making this combination graft. In transplanting these trees the original seedling root should be cut off, so that our new tree has nothing but a Spy root to sustain it. In planting them in orchard, care should be taken not to set them any deeper than they stood in nursery, for if planted low the upper splice is brought under the ground, and the Grimes scion will throw out roots itself, and in that way demoralize the root system. This, in my opinion, is a much faster and easier plan than the top working method. The latter method is probably better for a cold climate, where many of our best kinds are tender; but here in Missouri I think the combination graft makes the best tree. I am not advertising the method for the purpose of selling trees. I have none for sale, having cleared out my nursery. I don't know whether any one else has tried this combination graft, but here it is for what it is worth.

Weatherby, Mo. A. L. ZIMMERMAN.

A SUGGESTION FROM HENRY SCHROEDER.

Let me suggest to the management of the NATIONAL NURSERYMAN that when it publishes in future the names of nurseries as it did some time ago, that after each name you state whether these persons are readers of your paper or not. We would rather do business with a man who reads a good nursery paper than with one who does not. This will give us a chance to deal with the right kind of men. We don't want to deal with a man who doesn't care to take a trade paper to make him keep step with our time.

Just a word on plums. I have tried over a hundred varieties of plums in the last few years, but the plum rot has got most of the fruit. It looks to me as though nurseries which have very rich soil ought to grow weeping willows instead of plums! Or let them grow varieties like Burbank, which is naturally crooked and twisted in growth and needs pushing. One of the good native plums that I have grown is Charles Downing. It comes into bearing slow, but later on it grows stronger and becomes very productive. Among the pears, Boussock again brought the highest price. Who has tried Boussock as a dwarf, and has it for sale in this form?

Sigourney, Ia. HENRY SCHROEDER.

A PLEA FOR SCIENTIFIC NOMENCLATURE.

It is a matter of great surprise to many that the ornamental nurserymen of America do not adopt a uniform and of course, a scientific nomenclature in all their catalogues and price lists. As things are to-day there is inextricable confusion and often no little difficulty in discovering what is offered.

One nurseryman will offer platanus, a second buttonwood, a third buttonball, a fourth plane tree, a fifth sycamore. There are many such confusing instances. If scientific nomenclature be adopted this confusion will cease, and the proper name being used there will be no difficulty in knowing what is offered, and particularly where to find it.

Imagine, if you please, the foreign catalogues gotten up in this hodge-podge manner, and the annoyance that would arise as a consequence. They are just as real and just as vexatious in American as they would be in foreign catalogues. Scientific nomenclature is the same the world over. It may be objected that only the learned will understand, but to this extent we ought all be learned, and very soon would be if a uniform classification be adopted.

In retail catalogues it is the usual practice to use scientific names, supplementing the same with the common English names, which practice is doubtless best continued. I remember very well a story told me by a very prominent eastern nurseryman of once receiving an order for golden nine bark, which, he declared to the would-be purchaser he did not know. He was directed to his own catalogue, and of course the joke was against him. Another nurseryman of my acquaintance, who had been in the business about thirty years, expressed a desire that scientific nomenclature be adopted in his nursery, which was done. In digging plants that were close together, and where the stakes were disturbed and temporarily set up again, they were put in the wrong places. Mr. ——— came to me one day stating that there was in the field near his office, a very curious Pinus Austriaca (Austrian Pine). Investigation disclosed that it was a juniper.

It was this nurseryman's practice always to settle doubtful questions by the stakes, Everastium rhododendron being suddenly transformed into a white flowering sort, because a Boul de neige got among the plants in the trenches, and flowering first, settled the color for all because the lot were staked Everastianum. Such experiences should not count against the adoption of a scientific, and therefore accurate nomenclature.

The writer respectfully suggests that at the next meeting of the ornamental nurserymen of America the question of a uniform nomenclature be discussed. When considering the matter, it might be well too, to give some thought to the plan now followed by a few nurseries, of classifying all deciduous plants together that are of a woody or shrubby character. As matters now stand, some nurserymen put Helesia and Ptelia among trees, while the majority classify them as shrubs. Those following the first practice are clearly nearest right.

Flushing, N. Y., THEO. FOULK.

EDITORIAL WANDERINGS.

THE VIRGINIA TIDE WATER REGION AND THE JAMESTOWN EXHIBITION.

The eyes of the people of the United States will ere long be focused on the old historical part of the East, and a journey from New York to the scene of the struggles of the Virginia colonists at this time is fraught with more than ordinary interest. The Jamestown exposition differs in motive, plan, and execution from any exposition the United States has recently indulged in. Its purpose is eminently historical, and while other features will be illustrated and emphasized, the historical phases will receive the greatest attention.

A journey from central New York to tide water of Virginia in late November brings one to that region in a very pleasant period of the year, and illustrates the striking difference between the climate say of central New York and Norfolk. In the gardens of the latter city one will find the autumn flowers still in bloom. The hardy chrysanthemums carried abundance of blossoms and there was a September like feeling abroad rather than the chill of approaching winter, as in the North.

There are two ways of going down to this interesting region from Philadelphia,—one by train to Cape Charles, and the other an all water route from Philadelphia or Baltimore. The water route is the more agreeable, while the land route is the more expeditious. The region bristles with incidents of historical interest. As one approaches Norfolk, these features of interest increase in number. Old Point Comfort, Newport News, Hampton Roads, Jamestown, are all fragrant with the memories of early development. They are all intimately connected with the colonizing struggles of the Virginia settlers.

To the person who has not visited the region the term "tide-water" does not carry its full significance. The whole country lies only a few feet above high tide, and is subject to the tempering influence of numerous bays and streams, up which the salt water backs for many miles. The soil is a fine alluvial sand fertilized to a greater or less extent by overflow, and naturally by the decay of vegetable matter.

JAMESTOWN EXPOSITION.

The exposition grounds proper are not at Jamestown, as the name would indicate, but at Sewall's Point, some ten miles from Norfolk, almost directly opposite Hampton Roads, not far from Portsmouth, and in plain view of Old Point Comfort. This locality, it is stated, is the site of the original colony. In area the grounds are small when compared with the great exposition of St. Louis or Chicago. In execution they differ radically from any exposition grounds that we have seen. The structures, the style and stucco in varying colors, so prominent in previous expositions, are wanting, for the most part; but one sees cottage like buildings with shingled roofs and sides, giving altogether a ruralistic aspect. The grounds stretch for a half mile or more along the mouth of the James River, and have been parked in a very attractive manner. One of the striking features about the planting of the grounds is the free use of native shrubs. The landscape architect, Warren H. Manning, has made a specialty of this material, and tribute has been laid upon the woods and copses of the region for the material used in decorating the boulevards and roadsides.

At the present writing December 1, a number of the state buildings are completed, while many others are in process of erection. Of the exposition buildings proper, Fine Arts, Manufactures, the State's Building, and the Convocation Hall are completed. The latter is a stately building of the colonial style, with a large hall equipped with a fine organ, which will be used for assembly purposes.

With the opening day a few months distant, much work remains to be done; but plans are well in hand, and government buildings, eight in number, are being commenced, and it is confidently expected that everything will be in order on opening day at the end of April. The visitor finds the convention officials courteous, and approachable. They are earnest and hard working. It is certain that the naval and historical displays will surpass anything which any exposition has ever

Birds-eye view of Hampton Roads and the Jamestown Exhibition.

Characteristic Architecture at the Jamestown Exposition.

attempted, and that the exposition as a whole will be a great educational opportunity.

The visitor to this region is very much interested in the crops grown in the section. This is the original and noted truck growing section of the United States. Here two and usually three crops are taken from each acre of land every year. At this time of the year acres and acres of land are covered with spinach, lettuce and radishes, while the winter cabbage crop is just being planted. It expresses a style of intensive effort, with which the ordinary farmer is quite unacquainted. The trucker uses fertilizers freely, and secures large returns. The farms are small. A plot of five or six acres often supports a family, and when this is supplemented by an oyster bed the estate is considered well balanced and the heritage assured.

Editor National Nurseryman,

Rochester, N. Y.

Dear Sir: I have seen in the February number of "*American Fruits*," a copy of the circular letter sent out to a selected list of members of the American Association of Nurserymen, with some replies thereto, which intimates that there must be great danger to that Association by reason of the membership in it and influence upon it of those who are not actively engaged in the nursery business.

It would appear from the tenor of the editorial announcement accompanying this selectly distributed letter, and from such of the replies as have been printed, that an alarming condition of affairs must exist, and that the nurserymen are in danger of being swamped in the Association by the great flood of lithographers, printers, label-makers, digging-machine sharks, importers and the other people who disturb the peaceful slumbers of the nurserymen by attempts to introduce to their notice presumed advantages in various directions.

Having been a member of the American Associations for something like half a generation, and having attended its meetings with considerable regularity, I have been trying to dig out of my memory some conditions to justify the suggestion of danger which has been expressed in the periodical which claims to fully represent the trade. I have been a little surprised at the letters printed from some active nurserymen who thus seem to be alarmed, for some of these gentlemen are anything but meek and have never been vociferously quiet in the Association's meetings, within my recollection.

I fail to dig up any remembrance of an occasion upon which a non-nurseryman member has changed the trend of matters in the Association, when a question of importance to the nursery trade was under discussion. While under the constitution all the non-nurserymen members have the right to vote and speak, they do not seem to have exercised that right to any serious extent.

True, at the Dallas meeting two non-nurserymen members, learning of a rather unpleasant factional trouble which was likely to appear at the last session, disturbing the harmony and good order which always have characterized these meetings, did interfere, by the help of an ex-president of the Association, a man of noted eloquence, and prevented any disorder. Perhaps this is the inimical action which has alarmed the editor of "*American Fruits*" and caused him to protest against this pernicious minority?

Not over four non-nurserymen members have spoken in the Convention's meetings within the past five years, as I remember it, except as, in response to the request of the programme committee, men well posted upon certain subjects have delivered important papers for the benefit of the Association.

If there is any danger that the extreme tip of the tail involved in the small percentage of non-nurserymen members belonging to the Association can wag the healthy old dog, then let us by all means tie up that tail or stub it off at once! The Association has it in its power at any properly called meeting to prevent undue activity of the sort complained of, if it so desires.

I happen to be also a member of a national association of printers, in which machinery men, ink-makers and paper manufacturers are welcomed. While these associated gentry do sometimes lift their voices at our meetings, we have never been scared of them, and I cannot help feeling that until the poor timid nurserymen, comprising about 98 per cent. of the membership of the Association of Nurserymen, cry for help against the assaults of the supposedly aggressive and vicious 2 per cent. of non-nurserymen, we can let the thing joggle along about as it is without any great harm.

J. Horace McFarland.

Business Movements.

A LARGE TREE ORDER.

The Arcadia Irrigation Company, of Arcadia, Washington, is stimulating the planting of fruit trees in that region. A contract was recently placed with the Washington Nursery Company, of Toppenish, for one million apple trees. These trees are for the planting of several thousand acres of land, which tract is now being developed and equipped with irrigating ditches. The region is a short distance from Spokane Falls, and is strongly advocated as a home for the winter apple.

EUROPEAN EXHIBITORS AT JAMESTOWN.

The firm of Conrad Appel, of Darmstadt, Germany, will make an exhibit at the Jamestown Exposition this year. The exhibition will include a handsome show case in which seeds and wares will be displayed, and a lawn grown from home produced seed, and cared for by the firm. This exhibit will contain many features of interest, and will add much to the attractiveness of the space devoted to nurserymen.

A NEW HORTICULTURAL JOURNAL FOR THE NORTH.

We are glad to record the appearance of a new horticultural periodical. This is Jewell's *Northern Fruits and Flowers*, published by the Jewell Nursery Co., of Lake City, Minn. There is unquestionably a field for a magazine of this kind, and we wish the journal the fullest measure of success.

NEW ROSES BY THE CONARD AND JONES COMPANY.

We note that in the *New Floral Guide* of 1907 of the above company, a number of new offerings are presented to the trade. Among these is a new rose, Charles Wagner, and a new canna, William Saunders. Besides the latter, other cannas called Ottawa and New York are offered as improvements on anything in their special field that has yet been offered to the trade. The Conard-Jones Company have long enjoyed a favorable reputation as producers of high grade roses and ornamental plants.

McNary & Gaines, of Dayton, Ohio, have moved their office to 316 West Fourth Avenue, where mail and telegrams will be received, except during the busy shipping season, when the office will be maintained at Xenia as before.

P. J. Berckmans Company, Inc., Augusta, Georgia, have been for many years interested in propagating and disseminating useful and desirable forms of ornamental plants. They now announce that their landscape architecture department has been enlarged by the employment of engineers and designers, and that they are fully prepared to undertake all types of landscape gardening work. Having a large and varied stock of ornamental trees well adapted to the south, they are very favorably situated for the rapid and satisfactory execution of such contracts. * * * Mr. and Mrs. R. C. Berckmans are to be congratulated on the arrival of a little girl—the first in the home nursery.

Sunny Side Nursery Company, Tacoma, Wash. This organization has increased its capital stock from $10,000 to $26,000. Mr. T. C. Williams and Dr. J. R. Harvey were added to the number of stockholders. The officers are F. G. Spalding, president; W. S. McClain, secretary; J. R. Harvey, T. C. Williams, and H. K. Spalding, trustees.

The Ward-Dickey Steel Company are offering a brand of planished sheet steel for box strips this season. It is recommended as possessing desirable qualities for strengthening boxes, and samples will be sent to all persons who are interested in seeing it. The address is Indiana Harbor, Indiana.

Messrs. Lewis Chase, of Chase Bros., Rochester, and Nelson Bogue, of Batavia, have been touring the Pacific Coast for two months. They are due at their respective places of business about March 15th. Mr. Bogue writes, "New York State never looked more promising and attractive than at the present moment."

Quiz Column.

PROPAGATING CATALPA, PRIVET AND MULBERRY.

Please inform us what is the best stock for the cultivated lilacs; how Catalpa is grown, and how Teas Mulberry is best multiplied?

CLIMAX NURSERY CO.

The California Privet is preferable for budding the lilac. The lilac should be budded the last of July or the first of August.

In propagating Catalpa Bungeii, they do not say whether they mean the dwarf or standard. Soft wood propagation is much better for the dwarf variety, while if standards are wanted, plant the Catalpa Speciosa and let it grow for one year. Then cut off to the ground and let it grow again until it becomes 6 to 7 ft. high and bud with dormant buds of the Catalpa Bungeii in the spring.

The Teas Weeping Mulberry should be top grafted on Russian Mulberry stock very early in the spring.

THE ELIZABETH NURSERY CO.

VIRGINIA LAWS.

NATIONAL NURSERYMAN:

We have been trying this long time to get a copy of the law governing the sale of fruit trees in Virginia. Have written several places in the State but have failed. Can you furnish us with this information, or give us the address that we may write for same. Thanking you in advance, we are,

Virginia. THE GOLD NURSERY CO.

Answer. If you will refer to the March issue of the NATIONAL NURSERYMAN for 1905, and the same month for 1906, you will find in each a complete outline of the laws governing the shipment of nursery stock into the different states. If you have not this copy before you, write to the business office at Rochester. You could also secure it by writing to the state entomologist, Prof. J. L. Phillips, Blacksburg, Va. [ED.]

NATIONAL NURSERYMAN:

Please send me any available literature you may have on hand pertaining to the growth of apple and pear seedlings. Or if you could kindly refer me to some authentic publication on this subject it would be greatly appreciated.

Washington. D. W. B.

Answer. We are sorry to say that there are no American bulletins on the growing of apple or pear seedlings, but it will give us much pleasure to attempt to answer any specific questions which you may put to us on this subject. If you desire a reference on the general subject of the propagation of plants, we would advise you to secure a copy of the Nursery Book, Bailey, published by the Macmillan Co., of New York. This gives explicit directions for the growing of apple and pear seedlings. The great bulk of the apple seedlings grown in this country are produced in the Middle West—Iowa, Kansas and Nebraska. Very few pear seedlings are grown in this country because it is difficult to produce them economically on account of the prevalence of a leaf spot disease, which is a serious deterrent. Our own opinion is that this could be overcome by careful and thorough spraying, but as yet nurserymen usually fight shy of the growing of any crop which requires much coddling of this kind during its infantile period. [ED.]

Among the Experiment Station Workers

Bulletin 170, Ohio Agricultural Experiment Station. This discusses peaches for the home and market, and is a very useful publication from the standpoint of the planter. It describes in detail the leading varieties suitable for general market or home use. The bulletin is illustrated and is to be commended to the beginner in fruit growing.

Bulletin 134, of the Maine Agricultural Experiment Station, contains notes on the life history and habits of the brown tail moth and gypsy moth. Speaking of the brown tail moth, the author states that the most important remedy is cutting and burning the winter nests. It is most important because it is easiest, cheapest, and if thoroughly done, a sufficient protection against the ravages of the pest.

ANNOUNCEMENT.

TO TRADESMEN, RANCHMEN AND THE TREE PLANTING AND PURCHASING PUBLIC OF TEXAS AND THE SOUTHWEST—GREETING.

Kingsville, Texas, February 1st, 1907.

It is with great pleasure that I am able to announce the sale and transfer of the Gulf Coast Line Nursery, which was founded and has been managed by the undersigned, to the Griffing's Semi-Tropic Nurseries, with Mr. W. C. Griffing, of the well known nursery firm of The Griffing Brothers Company, as manager.

The new firm and management expected to take over the business and management January 1st, 1907, but owing to illness of the new manager, Mr. W. C. Griffing, the transfer was necessarily postponed until February 1st.

The new management brings with him the high standing and good will of The Griffing Brothers Company, who are more widely known and largely interested in nursery and horticultural pursuits than any other family in the southeastern part of the United States, and who have been successful from the founding of their great nursery and horticultural enterprise. As mere boys they started in business in a small way, but good judgment, pluck and energy have crowned their efforts with success almost beyond comprehension. From only a few acres their interests have widened into the thousands, and their plantations are equipped with the most up-to-date implements, appliances and improvements.

Mr. Griffing is vice-president of The Griffing Bros. Company, and has been for the past ten years general manager of their Macclenney division, the principal branch of their Nurseries and orchards. He will bring with him, besides a fund of knowledge and experience, which will not only be of untold value to the new nursery firm, but also to the horticultural interests of Texas and the southwest, several carloads of trees ready for their spring delivery, and an immense stock of propagating stocks and material from which will be grown what will probably be the largest and most complete stock of trees ever grown in this locality.

The new firm will give special attention to hardy citrus trees, the finer varieties of budded and grafted pecans and a general line of fruit trees, vines and plants, ornamental trees and shrubbery, especially adapted to Texas, Mexico and the southwest.

The undersigned will be retained by the new firm as horticultural adviser and the many friends and patrons of the Gulf Coast Line Nurseries, as well as the new patrons of the new firm will continue to have the benefit of the best of my horticultural experience and knowledge.

Thanking the many friends and patrons of the Gulf Coast Line Nursery for their liberal and valued patronage of the past, and soliciting a continuance of same as well as a host of new patrons for the new firm (Griffing's Semi-Tropic Nurseries), who will with the greatly increased stock and facilities, be better equipped to handle your orders to the perfect satisfaction of the most fastidious, I am,

HARVEY C. STILES,
Manager Gulf Coast Line Nursery.

Sarita, Texas, February 1st, 1907.

In resigning my position as active manager of the Macclenny Division of The Griffing Bros. Company Nursery and Orchard interests and accepting the management of the Griffing's Semi-Tropic Nurseries, I do so for the two-fold purpose of getting into a new and wider field and the widening of the Griffing interests in the nursery and horticultural world. It has for years been the desire of the Griffing Brothers to have a nursery and orchard interest at some point in the new and rapidly developing southwest.

The opening of the Gulf Coast Section of Texas with its fertile lands, mild and uniform climate, where many tropical and semi-tropical trees and plants thrive so well offered the ideal opening that we had sought. After a most careful investigation of the many promising locations and opportunities, I arranged for the establishment of the Griffing's Semi-Tropic Nurseries with myself as manager, with present business headquarters at Sarita, and purchased the stock of trees and plants, equipment and good will of the Gulf Coast Line Nurseries.

To this fine stock of trees and plants has been added several car loads of high class trees and plants, which I have brought from Florida. The new firm The Griffing's Semi-Tropic Nurseries, is now, and expects to be at all times, prepared to fill orders for trees and plants especially adapted to Southern Texas, and solicits both correspondence and orders from all the old customers and friends of The Gulf Coast Line Nursery and a host of prospective customers, all of whose orders I trust to have the pleasure of filling.

Assuring you of my hearty appreciation of any and all business entrusted to The Griffing's Semi-Tropic Nurseries, I am,

W. C. GRIFFING, Manager.

Jacksonville, Fla., February 1st, 1907.

The Griffing Bros. Company, while regretting the loss of a most efficient, capable and energetic manager for our Macclenny Division, at which are located our principal nursery and orchard interests, we rejoice in the establishment of The Griffing's Semi-Tropic Nurseries, with Mr. W. C. Griffing as active manager, and of our many friends and patrons, ask for the new nursery which will be conducted along the thorough and careful lines that have proven so successful with other enterprises undertaken by the Griffing Brothers, the hearty support, confidence, good will and liberal patronage, such as has been shown us in the past.

THE GRIFFING BROS. COMPANY.

THE NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Dear Sirs :—

Enclosed please find P. O. M. O. for $1.00 for renewal to my subscription, for 1907.

I consider the Journal is improving each year, which is proof of prosperity, and so is my trade improving.

Wishing you a prosperous New Year.

ALONZO LOWE.

SHADY HILL NURSERY CO.

Notice is hereby given that Mr. Edward L. Beard has no authority to buy or sell for this company or collect money on its accounts. By order of the Board of Directors.

SHADY HILL NURSERY CO.,
Bedford, Mass., December 17, 1906. HEBER H. CLEWLEY, Prest.

Rochester and Geneva nurserymen were visited by Mr. C. R. Burr, of Manchester, Conn., during the early part of February.

NORTHERN RED CEDARS, seedlings and transplanted stock in various sizes, of choice quality.
CHICKASAW OR MINER plums in many sizes, **Improved Stock,** beautiful trees, fine fruit, also small Evergreens, Seedlings, and transplanted Moss Roses, Purple and White Lilacs and Small Fruits. Prices reasonable.

Address, JOHN M. WISE,
"THE WISE AVENUE NURSERIES." Freeport, Illinois.

PEACH TREES

60,000 One-Year Trees in assortment of leading varieties for early Spring shipment.

OUR DELAWARE GROWN TREES ARE FINE.

THE DELAWARE NURSERIES, Milford, Del.
D. S. COLLINS, MANAGER.

Wanted Kilmarnock Willow Scions

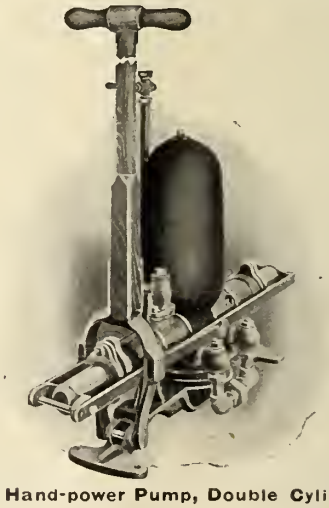
State number you can furnish and price per 1000.

W. C. REED, Vincennes, Ind.

C. BETSCHER,
CANAL DOVER, OHIO, U. S. A.

Peonies, 1200 sorts, big stocks.
Iris, various types, 100 sorts.
Gladioli, Cannas, Dahlias, etc.
The finest quality anywhere.
Let us know your wants.
Right prices, stock genuine.

E. C. BROWN'S TRACTION FIELD AND ORCHARD SPRAYER.

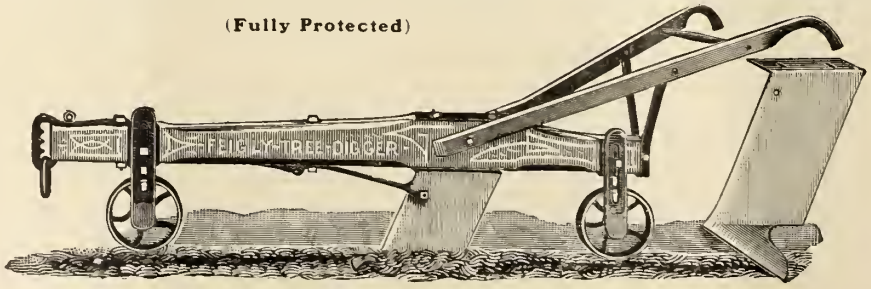


E. C. Brown's Hand-power Pump, Double Cylinder, for Large Orchard Use in Connection with Tank or Barrel.

CHEAPEST AND BEST.
Price, $23.50.
Complete with Traces, $25.50.

The Improved Feigly Tree Digger.

(Fully Protected)



MANUFACTURED AND FOR SALE BY
AL. K. FEIGLY, = SKIATOOK, I. T.

A Boon to Nurserymen.

It will do the work of fifty men with spades and do it better.

Mount Arbor Nurseries,

E. S. WELCH, Proprietor,

136 Center Street, SHENANDOAH, IOWA.

OFFER LARGE STOCK FOR SPRING 1907.

- Apple and Crab
  125 Varieties, all grades.
- Cherry
  Two Years. Sweet and Sour Sorts.
- Plum
  European, Japanese and Americana leading kinds.
- Ornamental Trees and Shrubs
  Leading popular kinds.
- Roses
  Hydrid Perpetual, Ramblers, Climbing, etc.
- Vines
  Choice lot of Hardy Stock.
- Apple Grafts
  Any style made to order.
- Apple Seedlings and Fruit Stocks

We make a specialty of carrying a full assortment of stock for the wholesale trade.

ASK FOR *SPRING TRADE LIST*, NOW READY.

The Barnes Bros. Nursery Co.

YALESVILLE, CONN.

OFFER THE FOLLOWING SURPLUS, SMOOTH, STRAIGHT, WELL GRADED AND NEARLY ALL IN CELLARS SO IT CAN BE SHIPPED ANY TIME.

PEACHES, ONE YR.	9-16″ and up.	½ to 9-16″	7-16 to ½″	⅜ to 7-16″	2 to 3 ft.
Bray's Rareripe,	...	...	....	1000	1500
Belle of Georgia,	300	200	4000	100	3000
Carman,	200	300	200	600	1500
Chair's Choice,	100	...	200	200	250
Champion,	3400	2400	1000	800	2000
Crawford's Early,	100	300	800	700	1000
Crawford's Late,	...	...	500	1000	2000
Elberta,	5000	500	1500	...	2000
Frances,	200	100	300	300	150
Hieley,	800	500	400	400	450
Iron Mountain,	60	250	35	200	800
Mountain Rose,	700	900	1000	1000	2000
Niagara,	70	150	260	200	400
Old Mixon Free,	400	1000	1000	600	1200
Stump,	1000	2000	2000	2500	1000
Stevens Rareripe,	1000	1500	700	1600	2000

APPLES.	¾″ and up.	⅝ to ¾″
Rhode Island Greening,	1000	750
Ben Davis,	500	800
Sutton Beauty,	300	300

We also have a large lot of Asparagus Roots and Currants, Wilder and Fays; also Plums, European and Japanese varieties, including Satsuma.

WRITE AT ONCE FOR PRICES ON WHAT YOU CAN USE.

When writing to Advertisers mention The National Nurseryman.

Evergreen and Forest Tree Seedlings

Ornamental Trees, Shrubs, Etc., Etc.

WHOLESALE AND RETAIL

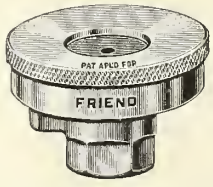
R. Douglas' Sons,

Waukegan Nurseries, Waukegan, Ill.

A TRUE

"FRIEND"

IS ALWAYS IN DEMAND



IS NEVER FOR-GOTTEN

IF YOU ARE A FRUIT GROWER, IT WILL COST YOU . . . . $1.55 TO READ THIS AD.

For many years there has been a demand for a spraying nozzle that would produce a fine spray and still handle the desired amount of solution, thus doing away with the usual cluster of small nozzles. We have worked on the idea for years and have had excellent results. The "Friend" nozzle that so many people used with pleasure last season and before had its disadvantages, but we have continued to improve on the idea until now we have the one pictured above. It is small, light, neat and durable. It has no horns, no hooks, nothing to catch or clog. Does the work of four other kinds, yet makes the finest mist-like spray under ordinary pressure. It is the nozzle that the leading fruit growers are now all using. Remember only one does the work. Brass or aluminum, price $1.50. Sent postpaid, wrapped in a neat box for $1.55. If you want to get in touch with the only firm devoted exclusively to the manufacture of spraying apparatus, hand and power, a concern who make every part of their machine, and who originate "Not Steal" all of the good points, just write your wants to the

"FRIEND" MFG. CO.,
GASPORT, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

WHITE PINES

4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

HARLAN P. KELSEY,
SALEM, MASS.

LOMBARDY POPLARS.
9, 10 and 12 ft. Young Trees; branched low.

CAROLINA POPLARS.
1 in. and 2 in.

CALIFORNIA PRIVET.
Fine. 15 inches to 5 feet. 1 and 2 yrs.

PEACH TREES.
HEMLOCK, SPRUCE.
5 to 7 feet.

JOSIAH A. ROBERTS, MALVERN, PA.

SMALL FRUIT PLANTS
FOR THE NURSERY TRADE.

ADDRESS P. D. BERRY, DAYTON, OHIO.
R. F. D. No. 3.

WANTED

A THOROUGH NURSERYMAN AND FRUIT GARDENER

to *inaugurate* and *manage* a *nursery* and *fruit garden* in the *Artesian Belt* of the *WONDERFUL GULF COAST COUNTRY AT FALFURRIAS, TEXAS.* Our company is willing to assist in furnishing land and finances for the right kind of party. Our country is especially adapted for the raising of oranges, lemons, olives, plums, peaches, apricots, grapes and small fruits. Also English walnuts, pecans, etc. Only parties with good knowledge and best of references need apply.

FALFURRIAS IMMIGRATION COMPANY,
No. 3 West 10th St., KANSAS CITY, MO.

"SCALECIDE"

will positively destroy all soft bodied, sucking insects, including all forms of San José scale. It is simple, cheap, easily applied and wonderfully effective. Endorsed by government experiment stations, agricultural schools and thousands of fruit growers.

The above pictures are made from photographs taken at Sound Beach, Conn., in June, 1906. They were in like condition the year before. The right hand tree was sprayed with Scalecide and saved. The other tree was left unsprayed and has been killed by scale.

FOR FURTHER INFORMATION WRITE DEPT. W.

B. G. PRATT CO., Mfg. Chemists, 11 Broadway, New York, N.Y.

ALTHEAS

WE HAVE 12,000 Altheas in surplus. They have all been transplanted; some of them twice, most of them three times. All are thrifty, bushy shrubs in prime condition. The sizes are 2 to 3 feet and 3 to 4 feet. There is a large assortment of varieties; all colors; single and double flowering kinds.

If interested in the varieties, write for a complete list.

ALSO FULL ASSORTMENT OF EVERGREENS, AND DECIDUOUS TREES AND SHRUBS.

THE WM. H. MOON CO.,
MORRISVILLE, PA.

CONRAD APPEL,

Established 1789. DARMSTADT, GERMANY.

FOREST AND AGRICULTURAL SEED ESTABLISHMENTS

Extensive Desiccating Establishments for Forest Tree Seeds.

SPECIALTIES:

High Grade Forest Tree Seeds, such as Scotch Fir, Spruce, Larch, etc. Acacia, Sycamore, Maple Adlers, Honey Locust, Elm, etc. Grass, Clover and Agricultural Seeds.

Grass Seed Mixtures for Lawns and Meadows. Purveyor of guaranteed pure seeds, true to name and really of new crop, with highest obtainable purity and growth, tested by the leading Seed Testing Laboratories at Zurich, Washington, etc.

MANY HIGHEST AWARDS. GRAND PRIZE MILAMO, 1906.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

When writing to Advertisers mention The National Nurseryman.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

THE FRASER NURSERY

JOHN FRASER, PROPRIETOR.

HUNTSVILLE, ALA.

Offers for Immediate or Spring Shipment:

A full assortment of Chikasaw and American Plums, two years.
Japanese Plums, one year.
Sour Cherry in small grades, two years.
Everbearing Mulberry, in all grades.
Standard Pears for lining out.
California Privet, two years.
Magnolia Grandiflora, two to three feet.

Surplus List Now Ready.

BOX STRAPS

Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

WANTED TWO YOUNG MEN. Bright and Active for Packing Department.

THOMAS MEEHAN & SONS, Inc.,
Box B., GERMANTOWN, PHILA.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

TREES! TREES!

We have them in large quantities. They are all Illinois grown. A large stock of the new and leading varieties of Apple and Peach. Send us your Want List and we will make you special prices.

JOHN A. CANNEDY N. & O. CO.,

Nurseries at Carrollton and Jerseyville, Ill. **CARROLLTON, ILL.**

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

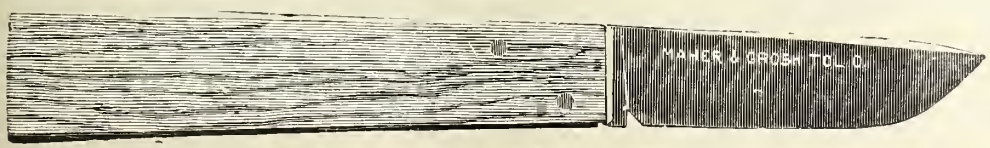
Geo. E. Dickinson, 1 Broadway, N. Y.

J. F. ROSENFIELD, West Point, Nebr.

WHOLESALE GROWER OF

PEONIES

Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.

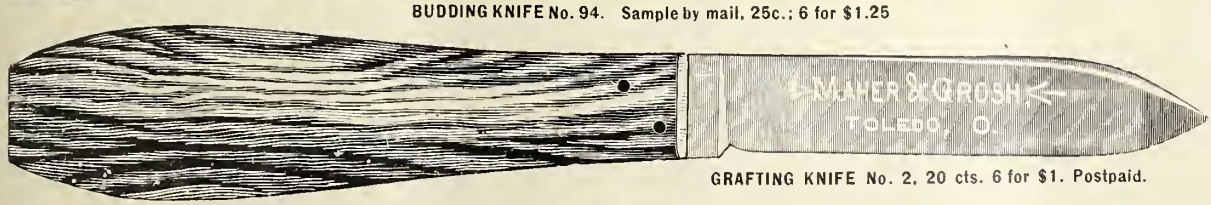


BUDDING KNIFE No. 94. Sample by mail, 25c.; 6 for $1.25

NURSERYMEN'S

KNIVES

Hand forged Razor Steel Warranted



GRAFTING KNIFE No. 2, 20 cts. 6 for $1. Postpaid.

Nursery Pruner, 50cts.
Pocket Pruner, 60cts.
Pocket Budder, 35cts.
Pocket Grafter, 40cts.

We Solicit Direct Trade

Send for 12 Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, Ohio.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

SPECIAL SURPLUS.

We have the following stock in our cellars in surplus ready for shipment as ordered and would be pleased to quote prices on your list of wants.

Apple.
Pear, Standard.
Pear, Dwarf.
Plum.
Peach.
Cherry.
Grape.
Currant.
Gooseberry.
Roses.
Tree Roses.
Rhododendron.
Clematis.
Althea.
Spirea.
Hydrangea.
Purple Fringe.
Lilac.
Norway Spruce.
American Arbor Vitae.
Balsam Fir.
Irish Juniper.
White Spruce.
European Larch.
Douglas Spruce.
White Pine.
Maple, Silver.
Maple, Norway.
Maple, Schwedlers.
Poplar, Volga.
Poplar Carolina.
Plane, Oriental.
Linden, European.
Mulberry, Russian.
Teas Weeping Mulberry.
Killmarnock Willow.
Camperdown Elm.
Weeping Mountain Ash.
Cutleaf Weeping Birch.
Black Locust Seedlings.
Catalpa Speciosa Seedlings.
Russian Mulberry Seedlings.
Import Stock.
Apple Seedlings.
Pear Seedlings.
Mahaleb Seedlings.
Quince Seedlings.
Rudbecka.
Pæonia.
German Iris.

We have 10,000 Norway Maple, 5 to 6 feet and 6 to 7 feet, straight stems, just the thing for transplanting, also Silver Maple, 3 to 4 ft., 5 to 6 ft. and 6 to 8 ft.

Catalpa Speciosa, "selected" and Black Locust Seed.

J. K. HENBY & SON, Greenfield, Ind.

Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

Send Your Want List.

101 best sorts

ROSES

Strong Plants, True Labels, Quick Shipment.

Get Our Price List.

Hardy Climbers, Noisettes, Ramblers, Etc.

On own roots.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO.

2½ and 4 inch pots.

Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet.
10,000 " " 1 to 2 feet.
10,000 " " 3 to 4 and 4 to 5 feet.
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Are You in Need of Teas Weeping Mulberry, one and two year Heads?

WE HAVE THEM AS FINE AS CAN BE GROWN.

A fine lot of New American Mulberry, 2 year, 5/6 and 4/5 feet. Also strong whips 5/6, 4/5 and 3/4 feet.

Calycanthus seedlings, 2 year by the thousand, 8/12, 12/18 and 18/24. Also transplanted 2/3 feet, bushy plants.

H. P. Roses, extra strong, home grown, budded stock.

A fine lot of Mahonia Aquifolia, bushy stock, 18/24 and 24/30 inches.

Send us your list of wants in Ornamentals. We make a specialty in this line. Always guarantee to please you.

EUCLID AVE. NURSERY CO.,

H. KOHANKIE & SON, Props., Painesville, Ohio.

When writing to Advertisers mention The National Nurseryman.

Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

BEDDING PLANTS. New varieties of Geraniums; one of our great specialties in this line are Double Petunias for which our strain is well known. Hardy Shrubs, Rhododendrons, Azaleas, Roses, Hardy Climbers.

All fully described in our Wholesale List issued quarterly, and mailed free to the trade only. If you do not receive this catalogue regularly, please advise us.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

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Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beurre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

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On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Tall, Giant Flowering and Bronze leaf varieties.

SHRUBBERY.

Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.
Spireas, Van Houtte, A. Waterer, Frobeli, Blue.
Deutzias, Gracilis, Gracilis Rosea, Lemoini.
Altheas, Jeannie D. Arc, Banner, Dble. Red and Purple.
Berberry, Thunbergii all sizes up to 3 ft.
California Privet, 3 ft. up to 6 ft.
Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.
Weigelas Rosea, Rosea Variagata, Floribunda, Candida.
Hibiscus Crimson Eye.

Send for our illustrated catalogue and trade list.

THE CONRAD & JONES CO.
WEST GROVE, PA.

ESTABLISHED 1780.

Andre Leroy Nurseries

BRAULT & SON, Directors,

ANGERS, FRANCE,

are now booking orders for

FALL, 1907,

FOR NURSERY STOCKS OF THEIR OWN GROWING, GRADING AND PACKING.

For Quotations apply to

ANDRE L. CAUSSE, Sole Agent,
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WABASH R. R.

offers unexcelled service to the

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FIVE DAILY VESTIBULED TRAINS
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KANSAS CITY and OMAHA.

Free Reclining Chair Cars, Pullman Sleeping Cars, Wabash Dining Cars.

Full information regarding rates, etc., cheerfully given. Address,

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JAMES GASS, N. Y. S. P. A., 287 Main St., Buffalo, N. Y.
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55,000 **"Palmetto"** ASPARAGUS PLANTS three years old. Strong, first-class roots in every respect. Will sell cheap as they are on ground that must be cleared next spring.

NO CHARGE FOR PACKING.

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The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES,

Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

I Offer for Spring 1907 **Choice Nursery Stock**

Cherry, 2 years, ¾ and up, E Richmond, Dyehouse, Mt. Morency, Black Tartarian and Windsor.
Standard Pears, 2 years, all grades, Bartlett, Kieffer, Seckel, Clapps and Duchess D' Ango.
Dwarf Pear, 2 years, all grades, Bartlett, Duchess.
Quinces, 2 years, all grades, Bourgart, Champion and Angers.
Plum on Plum, all grades. European and Japans, General List Varieties.
Also one year Standard and Dwarf Quince, Pear, Cherry, Plum and Apple.

JAMES M. KENNEDY, Dansville, N. Y.

W. van KLEEF & SONS,

Wholesale Growers of

Nursery Stock for the American Trade,

Boskoop, Holland.

Our packing shed in the busy seasons.

Ask for our SURPLUS LIST it will certainly interest you.

SOUTHWESTERN TREES

For the Home Beautiful, the Orchard, the Cemetery, the Park.

Teas W. Mulberry, Bungeii Catalpa,

BOTH ONE AND TWO YEAR HEADS.

Orders booked for immediate or for Spring shipment. We are below the blizzard line. Address,

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FOR NURSERYMEN AND FLORISTS

SAMPLES AND PRICES FOR THE ASKING.

DAYTON FRUIT TREE LABEL CO.

SOUTH CANAL STREET, DAYTON, O.

W. T. HOOD & CO.

Old Dominion Nurseries,

Richmond, Va.

OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Keiffer especially.

Natural Peach Pits, Crop 1906.

Write for prices.

WE HAVE TO OFFER

500 Bushels of Peach Pits

This year's stock. Order early. Write for prices.

W. R. ROACH CO. Inc., Hart, Mich.

The Best Salesman

Trade Mark "Brother Jonathan." Registered in U. S. Patent Office.

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THE FRUIT GROWER

ST. JOSEPH, MISSOURI.

Send for sample copy of our handsome January number, with cover and insert in three colors, and then arrange an ad for the February (spraying) number, forms for which will close January 20th. Our New Booklet "Get Your Share of the Harvest," sent free on request. Remember,

Sworn Circulation, 50,000 Copies,

Rate, $3.50 per inch.

THE FRUIT GROWER CO., St. Joseph, Mo.

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I have control of several thousand acres of Mountain land covered with Rhododendrons and am in a position to get these out on reasonable terms. Address, . . .

JOHN A. YOUNG, Nurseryman, GREENSBORO, N. C.

Special Low Rates to Nurserymen.

5000 Standard Pear	10000 Privet, Ibota
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5000 Plum	2000 Spirea, Van Houtti
50000 Peach	1000 Weigelia Rosea
5000 Niagara Grape	1000 " Variegated leaved
10000 Small Fruit Plants	2000 Phlox, white

5000 Deutzia, Pride of Rochester

W. B. COLE, Painesville, O.

The I. N. Brown Box Clamp.

LET ONE MAN DO THE WORK OF TWO.

Try One.

ENDORSED BY LEADING NURSERYMEN.
WRITE FOR PRICES AND CIRCULAR.

Manufactured and for sale by I. N. BROWN, Atlantic, Iowa.

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CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
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One-third Interest in the Fonthill (Canada) Nurseries.

Our Mr. Morris wishes to retire through ill health and old age. These Nurseries comprise eight hundred acres and are thoroughly up to date; cellars, packing houses, etc., on grounds. Business a flourishing one and prospects for the future better than ever. Fifteen to twenty thousand dollars cash down, and balance on security for any reasonable length of time. This is a grand chance for a practical nurseryman. Address, for particulars,

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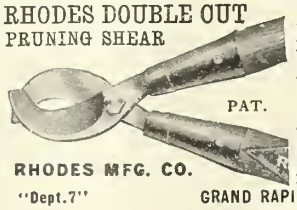

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

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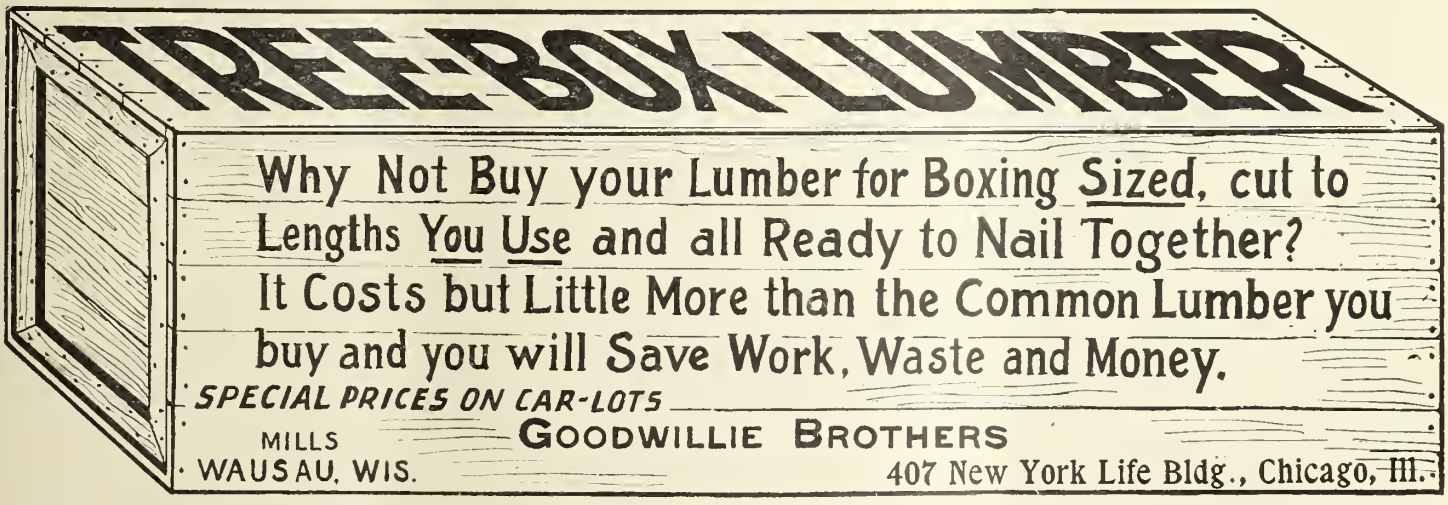
"Dept. 7" GRAND RAPIDS, MICH.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It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
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Grape Vines and Currant Plants

A SPECIALTY.

CORRESPONDENCE SOLICITED.

SITUATION WANTED

as manager, by young man with twenty years' experience as a Florist, Nurseryman and Landscape Architect.

An all 'round place preferred with a good local trade where considerable landscape work is done. Capable of handling a large place, and large jobs of landscape work and doing all the engineering connected with it, such as plans, surveying, etc. Would like a place where I could invest some money or buy outright after the first year. Wages must be good. Total abstainer. References No. 1.—A hustler.

Address, **Horticulturist,**
Care of National Nurseryman, Rochester, N. Y.

Wanted An experienced propagator of ornamental stock for large nursery near Chicago. Married man preferred, give references and wages wanted. Address, S. N., care THE NATIONAL NURSERYMAN.

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has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,
CHERRY, PLUM, PEACH,
Standard and Dwarf **PEAR, QUINCE,** ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

A LOT OF VERY FINE APPLE TREES

for the Wholesale Trade. Also some fine Apple Scions.

EAST TENNESSEE NURSERY CO.

R. F. D. No. 2. Clinton, Tenn.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,
WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

BUY TREES GROWN IN Southern Ohio.

FULL LINE, FRUIT AND ORNAMENTAL.

CATALOGUE FREE. SALESMEN WANTED.

SPECIAL PRICES ON APPLE AND PEACH,

W. T. MITCHELL & SON, BEVERLY, OHIO.

"Red Star Brand" Raffia Temporarily Reduced.

By purchasing an unusually large importation we obtained a lower price. Our Customers will share in the benefits for instead of maintaining the former prices—which were decidedly reasonable for Raffia of 'Red Star' quality—we will dispose of this particular lot at a reduced rate.

Shipment may be made when you direct, but order *now* as *prices are subject to advance when this importation is sold.*

Send for sample and prices

THOMAS MEEHAN & SONS, Box T, Dreshertown, Pa.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

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Sole Agent for UNITED STATES AND CANADA. 133 READE ST., NEW YORK.

600 Acres. Established 1853.

PEACH TREES

A large stock of fine trees in all sizes, and the leading varieties—a good proportion Elberta.

JAPAN PLUMS

Largely Burbank, Abundance and Wickson.

ORNAMENTAL TREES

Have been a specialty in our business for 50 years—A large stock of Pin and Red Oaks, all sizes from two to fourteen feet, also Prunus Pissardi, Judas Tree, Lombardy Poplars, etc.

ORNAMENTAL SHRUBS

We have 50 acres devoted to growing shrubs and vines, and the largest stock of VIBURNUM PLICATUM in the country.

NATURAL NORTH CAROLINA AND TENNESSEE PEACH SEED CROP 1906.

SEND US YOUR LIST OF WANTS.

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New York Office, Columbia Building, 29 Broadway.

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A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

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FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

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All Old and New Varieties

IMMENSE STOCK WARRANTED TRUE.

QUALITY UNSURPASSED.

Catalogue and Price List Free.

Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

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Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

IMPORT NURSERY STOCK

We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Pæonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

McHUTCHISON & CO.

17 Murray Street, NEW YORK CITY.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

PEACH SEED

We have still on hand a limited quantity of Virginia Natural and other grades of Peach Seed. Send for Catalog.

P. O. Box 451.
Established 1859.

W. W. WITTMAN & CO.
117 Hanover St., BALTIMORE, Md.

W. FROMOW & SONS, Windlesham, England.

Offer large and thoroughly high class stock of the following: Roses; Rhododendrons, hardy hybrids in sorts, and Ponticum; Golden Privet; Holly green and variegated; Bamboos in sorts; Berberis; Box-Handsworth; Laurels; Lilacs; Limes; Acacia Bessoniana; Althea frutex in sorts; Aucuba; Kalmia; Osmanthus; Olearia; Thorns; Yews; Cupressus; Picea Nobilis and Nordmaniana; Retinospora; Thuya; Thuyopsis, etc. For trade list apply to our American Agents,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

BLACK LOCUST

By the Millions. They HAVE to go.

You know what that means.

CALBRAITH NURSERIES

DE WITT HANSEN, Manager, Fairbury, Neb.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING 1907,

a complete line of Fruit, Shade and Ornamental Trees, Shrubs, Herbaceous Plants, Seedlings, Maples, Ash, Catalpa Speciosa, Tulip, Poplar, Mulberry, Oaks, etc., 500,000 Black Locust in all grades. Shrubs, etc , for lining out. Special prices quoted upon application on American Elm, American Linden, Green, and White Ash, Tulip, Poplar, European Sycamore, American Sycamore, European White Ash, and a number of other trees from 6 to 14 feet. Black Locust, Norway Maple, Catalpa Speciosa and other tree seeds.

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WARSAW, KENTUCKY.

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NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

Special Surplus for Spring, 1907

Japan Wild Goose and Robinson Plums, all grades.
Cherry, 1 and 2 year, medium and light grades.
Peach, 1 year, all grades.
Keiffer Pear, 1 and 2 year
Carolina and Volga Poplar 6 to 14 feet.
Tulip Polar, all sizes.
Apple, 2 year, all grades.
Paul Neyron and Magana Charta Roses
also general line of other stock.

Write for Grade Count Bulletin.

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W. C. REED, Proprietor. VINCENNES, INDIANA.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

EVERGREENS

Small Transplanted Stock.

Best Goods at Best Prices.

OLD RELIABLE EVERGREEN NURSERIES,

C. L. WHITNEY, Prop. WARREN, OHIO.

LABELS FOR NURSERYMEN.

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Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF

NURSERY and FLORISTS' STOCK

IN THE UNITED STATES, INCLUDING **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

Field Grown Hardy Roses

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

Eugene Furst Rose.

A Few of the Items We Have in Large Supply

SPECIAL PRICES ON EARLY ORDERS. Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata, Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. ¶ Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

51 Years **1200 Acres** **44 Greenhouses**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose Frau Druschki, mailed **FREE** on request.

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Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. **Rochester, N. Y.**

BULLETIN No. 3

Now Ready.

New Prices. Revised Counts.

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SPECIAL OFFERS ON:

Clematis
Tree Hydrangeas
Peonies
Perennials
Shrubs
Conifers
Vines
Roses

Careful Digging — Good Grading — Prompt Shipment— Low Prices — "That's All."

JACKSON & PERKINS COMPANY
NEWARK, NEW YORK.
NURSERYMEN AND FLORISTS—WHOLESALE ONLY

The Geneva Nursery

Established in 1846

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.,
GENEVA, NEW YORK

Let Us Give You Some Especially Low Prices

ON THE FOLLOWING FIRST CLASS STOCK.

LEMONS, AMERICAN WONDER,
FICUS ELASTICA,
KENTIA BELMOREANA,
KENTIA FORSTERIANA,
LATANIA BORBONICA,
GARDENIA FLORIDA,
GARDENIA VEITCHII (For forcing)
BIOTA AUREA NANA,
(BERKMANS' GOLDEN ARBOR VITAE.)

This year we have Ten Acres of This Popular Conifer.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. Over 450 Acres in Nurseries.
MENTION THIS AD.

FRONT COVER OF THE GREAT CATALOGUE OF THE BILTMORE NURSERY
THE BACK COVER SHOWED DOGWOOD BERRIES

OVER

This Biltmore Catalogue

Is probably the most complete, comprehensive and perfectly illustrated presentation of hardy trees, vines and plants yet produced. It is almost cyclopedic in its scope, and represents a vast stock.

Including 192 pages, it has 215 illustrations, and mentions 2,736 items in its index.

Every illustration used was from a photograph made at Biltmore for the purpose—there are no "stock" engravings, or exaggerations, or substitutions.

The Biltmore Catalogue is unique. It sets a new pace. It is 1907 and Twentieth Century high-water mark in business nursery offerings.

While elaborately illustrated, there are no "frills." It is a business proposition, designed to sell trees and plants and vines.

We are telling about it because we made it. Mr. Beadle supplied the copy and the courage; we furnished the design and the doing.

Every photograph was of our production, as well as every engraving. The cover was proposed, prepared and printed by us.

It will probably be impracticable for Mr. Beadle to send this great catalogue to all who ask. Fortunate will be its recipients! We have saved all odd sheets, and we will cheerfully send pages to applicants while they last.

The main point is the advance this catalogue marks in nursery-selling efforts. Some nurserymen will need to rub eyes and wake up, now! We will help the waking, on application. We can make other catalogues as well, if so commissioned.

At any rate, get a whole Biltmore catalogue if you can, or a part of one at least.

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

A Ready Reference

To 300 Acres of Well-grown Trees and Shrubs

such is our new Spring Catalog. Just think for yourself what a splendid selection it affords **300 acres, all in hardy ornamentals;** no fruits nor tender plants. And it is the kind of stock that will give you satisfaction: thrifty, well-rooted and grown with the idea of giving you **good measure in quality** rather than impoverished to allow of a few cents reduction in the price. If this is the kind of stock you want you cannot afford to be without our Ready Reference catalog. Shall we mail you a copy?

Some Specialties:

Hydrangea P. G.

We have a fine stock of this ever-popular plant. Every one our own propagation, big, fibrous roots, bushy tops.

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By the tens of thousands. Our stock is without doubt, the largest in the country. They do especially well in our soil. Many kinds, all sizes.

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Have you seen our colored plates? Not the "tomato can" style but a life-like portrayal showing foliage and flower. They're works of art. Shall we send you one? Free!

THOMAS MEEHAN & SONS, Inc.

300 Acres of Handy Plants.

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We offer the following smooth, straight, accurately graded trees, nearly all in our cellars so they can be shipped any time. Prices right.

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BEQUETT FREE,	50	200	300	200	350
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CHAMPION,	2000	3000	1500	1000	2500
CHAIR'S CHOICE,		....	200	200	300
CRAWFORD'S EARLY,	....	....		800	1200
CRAWFORD'S LATE,	....	....	500	2000	2400
ELBERTA,	4000	....	....	500	500
FRANCES,		....		250	200
HIELEY,	100			400	500
MOUNTAIN ROSE,		500	1500	1200	2000
OLD MIXON FREE,		500	1500	750	1500
STUMP,	1000	2500	2500	2400	800
STEVENS' RARERIPE,	1000	1000	1000	2500	2500
CARMAN.	....	....	....	....	1500
NIAGARA,	....		200	50	300
SALWAY,	....	....	....	150	500

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SATSUMA, on plum,	....	500	300

Also some varieties of European plums, Conovers and Barr's Mammoth asparagus roots, and Fay's currants, 1 year strong. Write at once for prices.

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THE PHŒNIX NURSERY COMPANY,

—WHOLESALE—

NURSERYMEN AND FLORISTS.

We have our usual very complete line of stock for Spring shipment. Send us your list of wants.

SPRING TRADE LIST NOW READY.

BLOOMINGTON, ILL.

P. O. Box 625.

EVERGREENS

LOOK OVER OUR NEW SPRING PRICE LIST FOR PRICES ON THE FOLLOWING:

Write for prices on Norway Spruce Seedlings (2 Yrs.). We offer them in any quantity and the stock is fine.

Norway Spruce, Transplants,	18 to 24 in.
" " "	12 to 18 in.
" " "	10 to 12 in.

We are offering some attractive prices on the Black Hill Spruce.

This is without question one of the most valuable evergreens we offer. Absolutely hardy in any climate, easy to transplant, a rapid grower and of such fine form and appearance. Our stock is all of first quality and will please the most exacting buyer.

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A good stock of the following varieties, in seedling and transplanted sizes.

Douglas Spruce, Dwarf Mt. Pine, Hemlocks,
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Chinese Compacta and Pyramidal Arbor Vitæ (extra Seedlings.)

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILLINOIS.

When writing to Advertisers mention The National Nurseryman.

The famous Magnolia Avenue in Fruitland Nurseries, Augusta, Ga.
The Senior Member in runabout.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XV. ROCHESTER, N. Y., APRIL, 1907. No. 4.

P. J. BERCKMANS COMPANY

PROPRIETORS OF THE FRUITLAND NURSERIES, AUGUSTA, GEORGIA. INTIMATELY CONNECTED WITH THE HORTICULTURAL DEVELOPMENT OF THE SOUTH. INTRODUCERS OF MANY NEW FRUITS AND ORNAMENTALS.

[Written and Illustrated by Our Special Correspondent.]

This firm, which enjoys a reputation for accurate technical knowledge, a progressive scientific spirit, a large variety of nursery product, and for honesty and integrity second to none, has been engaged in the business since 1857. The Berckmans belong to a family with strong horticultural instincts and tendencies. The father of the senior member of the Company was a cultured Belgian amateur horticulturist, who came to this country about the middle of the last century. He was a noted pomologist, having perhaps the largest collection of pears, apples, etc., in Belgium. This included a large number of the unintroduced seedlings of Dr. Van Mon's. As an artist his water colored fruit plates were never surpassed. His son, Prosper J. A. Berckmans, finally chose the region of Augusta, Georgia, as the place of his future commercial operations. He is also a close observer, an accurate descriptive pomologist. He studied natural

A noted Pomologist and Nurseryman,
Mr. P. J. A. Berckmans.

The Berckmans Homestead, from Magnolia Avenue.

sciences and had for years every opportunity for acquiring practical and scientific knowledge from his intercourse with the leading horticulturists of Belgium and France.

It is not surprising then that with this training, the love for fruit growing possessed by the present senior member of the firm should have become a second nature in early manhood.

The Fruitland Nurseries were established on the outskirts of Augusta in 1857. Beginning upon a small area of 20 acres, the business has grown and developed rapidly along a great variety of lines. Mr. P. J. A. Berckmans early in life became associated with the pomological development in all parts of the country, his work became very much diversified, and his importations laid tribute upon the entire field of ornamental plants, annual and biennial, as well as the ligneous types, in addition to the great groups of fruits adapted to tropical and sub-tropical conditions. In this way an extensive greenhouse and plant department has grown up to supplement the nursery or outdoor department.

FIELD AND PROPAGATING HOUSE EQUIPMENT.

Like many of the older firms of the country this firm has always made a practice of testing the plants they import or propagate before offering them for sale, so that there are two divisions in each of the minor departments, one a testing division and the other a propagating division. The visitor finds roses spread over great areas ; fruit trees in orchard and nursery to the extent of about 300 acres ; grape vines in test vineyard and nursery row, covering ten or twelve acres ; evergreens and deciduous trees of the ornamental types have always been a specialty, and twenty-five or more acres are devoted to these. In addition there are the small fruit plots and the minor test grounds.

In the sub-tropical and exotic department, mostly under control, there are upwards of 60,000 square feet of glass employed, and about half of this is devoted to the propagation and culture of palms. This group of ornamentals has long been a specialty with the P. J. Berckmans Company,

Propagating frames, Fruitland Nurseries, Augusta, Ga.

Berckmans' Biota.

and great success has attended their efforts in growing the standard varieties of these attractive foliage plants. The conditions in that vicinity are favorable for the cultivation of this type of decorative material and they can be produced in that section much more cheaply than further north.

INTRODUCTIONS BY P. J. BERCKMANS COMPANY.

The Company has been instrumental in bringing forward for public use either by direct origination or introduction many valuable fruits and ornamental plants. Among those which they can claim the honor of originating, that are destined to be of great value to the South, are the Thurber Peach, and Pickett's Late Peach; of ornamentals a great number have been introduced, one of the most important being Berckmans' Golden Arbor Vitæ, Biota aurea nana. This ornamental conifer has sprung into well deserved popularity with great rapidity. Its compact and regular habit of growth makes it specially suitable for formal surroundings, and its hardiness fits it for trying situations. Another variety, biota auria pyramidalis originating with this firm and introduced by them, is a pyramidal form of the biota, differing from the last in its conspicuously upright growth. Many other attractive ornamentals introduced in this country are also to be credited to the progressiveness of this firm.

Specimen Camellia in plantation, Fruitland Nurseries, Augusta, Ga.

Magnolia Grandiflora.

Among the fruit bearing forms introduced from foreign lands is the hardy orange, citrus trifoliata. This plant has become one of the most popular hedge plants in the South, and it also promises to carry orange culture very much farther north than it was possible to conduct it with the old line varieties. Citrus trifoliata has been crossed with the sweet oranges. This is the work of the U. S. Dept. of Agriculture and the result is something midway between an orange and a lemon, which, while it is not a dessert fruit, is excellent for the making of beverages. But then we have only seen the first generation of hybrids, and what the second and succeeding generations will bring forth no one can foretell.

Another valuable introduction by this firm is the Peen-to peach, a Chinese form of the peach, which enables the orchardist to carry this fruit practically to the southern limit of Florida. The Persian strains fail even in South Georgia, and where these drop out the Peen-to comes in. The introduction of this peach was of immense value to the fruit growing of the entire Gulf region. Other classes of fruits which the firm has been interested in is the sand pear group, which, though introduced into New York by the Prince Nurseries and later into New Jersey by Gideon Ross, was brought to public notice by the Berckmans. This sand pear has assisted pear culture in the South in the same way that the Peen-to peach has promoted peach culture. In addition to the pears we should not overlook the important work that the firm has done in popularizing the Kumquat. This small fruit was first introduced as an ornamental and is now rapidly taking its place as an important addition to the citrus group.

Looking across the lawn of Mr. L. A. Berckmans Fruitland Nurseries, Augusta, Ga.

The first intro-

Looking out from residence of P. J. Berckmans, Fruitland Nurseries, Augusta, Ga. Cunninghamia Sinensis is on right, planted 1861 when 12 inches high, now 50 feet.

duction of Japanese persimmons was made in 1871 but resulted in the failure of the trees; in 1878 the first fruit east of California was produced in the test orchards. The Kelsey plum was also introduced in 1884 and fruited in 1885.

PACKING AND SHIPPING FACILITIES.

Though the region does not demand the elaborate store house facilities required in the North, nevertheless the company is equipped with commodious store and packing houses, which ensure and facilitate the movement of stock during the entire dormant season.

Lygustrum Amurense, Fruitland Nurseries, Augusta, Ga.

A feature of the packing is the manufacture of the lumber as well as the boxes. With an abundance of timber and the desirability of employing a definite amount of labor throughout the year a sawmill is operated to advantage. Those who receive Berckmans' stock have come to recognize and acknowledge the high quality of material and workmanship which goes into the package, whether bundle or box.

The business connections of the firm are constantly widening, especially in tropical countries.

PERSONNEL OF THE COMPANY.

The Fruitland Nurseries were established in 1857 by Prosper J. A. Berckmans and remained under his sole management up to 1898, when the nurseries were incorporated and his three sons, Louis A., Robert C., and P. J. A. Berckmans, Jr., were admitted to membership in the firm. The senior member has had a life-long connection with our leading national fruit growers' organization—the American Pomological Society. He was a co-worker here with the eminent pomologists of the last century, the Downings, Warder, Thomas, and the great and honored Marshall P. Wilder, whom he succeeded in the president's chair in this worthy organization. For many years Mr. Berckmans has been president of the Georgia State Horticultural Society. The younger men have been prominent members of the American Nurserymen's Association, and many of the members will recall the right royal entertainment provided by them at the time of the last meeting in Atlanta.

PRESENT ACTIVITIES OF THE FIRM

The lines of work being prosecuted by this progressive company at the present time may be briefly summarized under the following heads: First, the propagation in large quantity, of many classes of fruits adapted to the rapidly developing Gulf States, and an effort to meet the needs of tropical and sub-tropical planters in the South as well as the outlying islands of the West Indies and the great countries of South America.

Second, the introduction of new types of fruits and ornamentals, forms containing within themselves the promise of great usefulness for the region tributary to the business of the Company.

Third, the stimulation of a livelier interest in beautifying the home surroundings, the establishment of public parks, and a general uplift along outdoor art lines by the organization of a well manned department of landscape gardening. We have had occasion in recent issues of the NATIONAL NURSERYMAN to refer to the establishment of this department, which is now fully equipped and ready to deal with all types of problems related to outdoor æsthetics.

Fourth, the growing of orchards in Georgia on a commercial scale and under the most approved systems of orchard management. In these plantations the propagator works shoulder to shoulder with the fruit grower and meets the same difficulties of growing and marketing. In other words the latest schemes of orchard management are put to the practical test. We have thus in this Company a well directed force making for the advancement of plant culture in all its lines in a region having unusual natural advantages, and where the spirit of development was never so active as it is at the present time.

Original tree of Citrus trifoliata, Introduced by Fruitland Nurseries, Augusta, Ga.

Correspondence.

A VOICE FROM THE RANKS OF THE WORKERS.

EDITOR NATIONAL NURSERYMAN:

This is the thirteenth year that I have been a constant reader of your valuable monthly, THE NATIONAL NURSERYMAN. The only thing I have against it is, that it does not come weekly.

Many valuable articles have appeared from time to time in the columns of this paper, but are they all studied as much as they deserve? The spraying for instance has taken up considerable space in the columns of the NATIONAL NURSERYMAN, and certainly many nurserymen should have profited from this one important topic alone. Fertilizers, handling and working the different soils, propagating, handling and packing nursery stock, all had their share in the paper, and still we are not perfect, and no doubt we never will be. We are so dependent upon nature and the great weatherman that it is simply impossible to follow any certain course rigidly. Our own practical experience and good judgment are our most important guides.

The claim that all the largest nurseries handle their stock more carefully than the small ones is not correct, but I do believe as a general rule that nearly all large nurserymen handle their stock as carefully as possible. The trouble with the small nurseries, especially the very small ones, is that they do not have the facilities, and second, a good many do not have the experience they should have.

Now this statement does not go to show that all small nurseries are badly crippled. For example, the nursery without a tree-digger is very far from perfect. The same is true, where the sprayers, cultivators, proper packing materials and facilities are missing.

The substituting of stock is another very bad and harmful habit; although quite a little of this is done now, it certainly is not nearly as bad as it used to be.

The catalogues are far from perfect. Although there are quite a number of firms who do not advertise all the new fake novelties and creations, there are too many of the get-rich-quick-type yet.

There is one thing especially I would like to see improved and corrected, and that is the statements about hardiness. Oftentimes we see shrubs and trees described as "perfectly hardy" and yet they would not even stand the winters in central New York State. I believe it would pay some firms to state as near as possible the coldest temperature each tree or shrub is known to have stood with or without any protection. (Without full description of conditions these records are not valuable.—Ed.) Many of the descriptions in some catalogues magnify the beauty of the flowers and foliage too much and forget to state the best location, soil and treatment required to bring it to its real beauty.

Botany is another subject of which many of the nurserymen seem to care very little. I have met many nurserymen and old employees who hardly know the botanical name of any tree, shrub or plant. I have myself often wished that we had a book or dictionary with as near as possible all the words used in the plant-world with the proper explanation of the pronunciation of all the botanical names, etc. (Try Paxton's Botanical Dictionary.—Ed.)

The wages paid to men in nurseries and greenhouses are in many instances lower than they ought to be. I have known young men who got discouraged in attempting to learn the nursery and greenhouse trade just on that account and learned another trade where the wages were higher.

A man who thoroughly understands the culture and propagation of nursery or greenhouse stock, naturally must have made it his study to obtain such ability, and we all know that it requires several years and an everlasting faithful watching of nature afterwards, and the few men who are doing this and are successful deserve a larger salary than most of them receive now.

In some instances young men who stick to the trade and are anxious to learn stay too long at one place. It is a good plan for any young man to stay in one place two or three years, but for his own benefit in the future it is best for him to make a change in order to see different methods, soils, climatic conditions and a different class of stock raised, even if he would not make quite so much for a year or so.

There is one good reason why some nurserymen have trouble to procure the necessary help and that is the inability to furnish steady employment; where men can find continuous employment in other vocations and with gradual increase we can hardly expect them to work in nurseries. It would certainly help considerably if steady employment could be given to a larger number of men. If this could be reasonably guaranteed I do not think it would be very hard to import the right kind of European labor.

We want more men like Mr. O'Mara. While it seems to be true we have only one man in this great country of ours who breeds creations, it is also true that we have several men who have given to the people real valuable novelties which are an honor to the nurserymen and florists in this country, and let us be faithful and thankful to these benefactors.

ONE OF THE WORKERS.

Our Book Table.

Soils: Their Formation, Properties, Composition, and Relations to Climate and Plant Growth in the Humid and Arid Regions. 9 by 6 inches. 593 pages, illustrated. E. W. Hilgard. Published by the MacMillan Company. Price, $4.00.

This book is divided into four parts: The Origin and Formation of Soils; The Physics of Soils; The Chemistry of Soils: and Soils and Native Vegetation. Dr. Hilgard is a German agricultural chemist. For many years he has been director of the Agricultural Experiment Station of California. He presents this volume from the standpoint of the chemist. In this respect it stands out in bold contrast to the recent work of the Bureau of Soils of Washington. The volume is exhaustive, the subject has been treated in a most painstaking manner, and as a comprehensive work of reference, which brings before the student the features and characteristics of soils of the entire agricultural world, the volume has great value. The chapters on alkali and arid soils are naturally written with special reference to Pacific Coast conditions, and will be particularly valuable in that region. It is a valuable contribution to the pedagogics of soil culture, and will undoubtedly be a useful work of reference for the soil physicist and the agricultural experiment station worker.

The Denney Tag Co. calls attention to its advertisement of this issue. They make all kinds of tags. Waterproof tags that will stand the weather,

The National Nurseryman

PUBLISHED MONTHLY BY

THE NATIONAL NURSERYMAN PUBLISHING CO., Inc.

205 Cox Building, Rochester, N. Y.

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Address Editor, Ithaca, N. Y.

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NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

CATALPA SPECIOSA.

We have pleasure in calling attention to the excellent work being done by Mr. John P. Brown, editor of *Arboriculture*, Connorsville, Ind., in popularizing the valuable hardy catalpa. Mr. Brown is distributing gratuitously to the various botanic gardens, arboricultural societies, experiment stations and public grounds in foreign countries packets of seed of this valuable tree. In addition to the above institutions, Mr. Brown has sent out some 250 packets to nurseries in the United States. This latter distribution is for the specific purpose of giving them an opportunity to compare the tree with the type which is ordinarily grown under the name of Catalpa speciosa. This distribution covers practically half of the seed collected by Mr. Brown last season. The remainder he wishes to sell. There is no question at all about the value of the hardy catalpa, but nurserymen probably understand that a great deal of confusion exists and they more often secure a comparatively worthless variety than the true type. This is an opportunity whereby they can secure a start of the valuable form, and we commend Mr. Brown's work very heartily.

HYBRID PEARS.

One of the great pomological events of the last century was the appearance of the Keiffer pear. This appeared in the garden of Peter Keiffer of Philadelphia, half a century or more ago. It was brought to public notice by the famous Parry Nurseries of New Jersey. It was the first of a race of hybrids between the sand pear of the Orient and the European pear. It was important in many ways, but largely because it made pear growing possible in the South, where before it had been impracticable or precarious. One of the prime errors in the distribution of this variety has been the planting of it in the North and East where it is not especially adapted, and where other varieties of higher and better quality can be grown with profit. The Keiffer has been, in our opinion, over-planted. Inquiry now comes, how can the mistake be corrected? Is the Keiffer a suitable stock on which to work Bartlett, Nellis, Bosc, and the like? It is certainly not fully demonstrated that the Keiffer can be successfully used in this way. Stray experiences here and there indicate that it may be used as a stock, but no general rule can be laid down at this time on the subject. Probably they would not be long lived; whether annually productive and free from disease are questions that the future only can answer.

THE DIGNITY OF THE CATALOGUE.

A nursery firm may not be judged solely by the character of its catalogue, but nevertheless its make-up does a great deal to stamp on the public mind a definite impression regarding that company. As catalogue season comes around each year we are impressed with the wonderful variety in quality and appearance. No one style appeals universally. It is an illustration of the old adage, many men of many minds. But there is one thing that is desirable at all times, namely, good quality. Another feature is that some method or system should pervade it. Particularly is this true of the retail trade. Customers get into the habit of ordering from certain firms, not because these firms carry a larger line or better stock than others, but

because their catalogues are systematically arranged, are attractively illustrated, and conservatively written. This is the type of catalogue that wins out in the long run. These are the points worth considering in the developing of this important nursery agent. The improvement in the quality of the nursery catalogue in recent years is a matter of common observation and general congratulation. May the improvement continue.

INTEREST IN ROSE GROWING.

The American Rose Society, though one of the younger floricultural organizations of the country, seems to be an active and progressive institution. A meeting was recently held in Washington where an excellent exhibition of flowers was shown and some good papers on the subject of rose growing were read. The outdoor cultivation of roses in this country has not received that attention which the importance of this beautiful plant in the ornamental list deserves. There are few plants having the wide range of adaptability possessed by the rose ; there are few plants possessing the intrinsic merit and æsthetic qualities of the members of this group, and there are few which offer equal commercial possibilities from the standpoint of the forcing crop, as well as the border or bed plant. In England and on the continent, the rose occupies a much more important position, commercially, than it does in this country. But it is making its way and with the development of the new hardy outdoor types greater popularity will follow.

We are glad to note that the city of Hartford is arranging through its park superintendent for a beautiful permanent display of outdoor roses. This rose garden was started some time ago at an expense of about $3,000 with about 3 000 plants. The area is being worked over and added to by the present superintendent of the park, Mr. Theodore Worth. It contains some 400 plots or beds, each representing a single variety. The climbing roses are trained to arbor-like forms leading towards the center of the garden. In this way variety in arrangement and the individual requirements of the types are met. This is an excellent movement, and it is in keeping with the sentiment contained in the following sentences written by the late Dean Hole, an eminent rosarian : "He who would have a beautiful rose in his garden, must have beautiful roses in his heart. He must love them well and always. He must have not only the glowing admiration, the enthusiasm and the passion, but the tenderness, the thoughtfulness, the reverence, the watchfulness of love."

A SEVERE WINTER.

In looking back upon such a winter as we have just experienced one feels a good deal of sympathy with the old time question which often comes up at this period of the year, "Are our seasons changing?" The early part of the winter was exceptionally warm, autumn dragged into the middle of January. There was hardly any sleighing in this section up to the middle of the winter season, but with the arrival of the middle of January there came unquestioned evidence of the activity of Boreas, and he has been doing business in the old way at the old stand ever since.

Reports of warm weather in midwinter were soon replaced with reports of streams freezing solid, killing the fish, with other sensations of the kind. Cayuga Lake, one of the "finger lakes" in central New York, was sealed over with a coat of ice for the third time in twenty years on the 26th of February.

With the advent of cold came the usual reports of injury to peach buds. We heard of wholesale killings and no doubt many buds have been destroyed—but not all. Here and there the saving remnant remains, and we can make up our minds that we shall have peaches in 1907, despite the winter cold of the East, March freezes in Georgia, and hailstones in Texas. But all said and done, the latter part of winter has been of the old fashioned kind, and spring is coy and distant but it promises to come suddenly.

This subject has been before the Association in conventions gone by, and has already been discussed in these pages ; but it is a question which should never down, or be lost sight of.

COST OF GROWING NURSERY STOCK.

If nurserymen had clearer notions regarding the actual cost of growing stock, there would be very much less variation in prices demanded for the same class of stock by growers in different parts of the country. How many nurserymen have evolved a system by which the cost of growing the stock can be accurately ascertained? A good many nurserymen undoubtedly can make a stagger at an estimate, but very few carry accounts with each block of nursery stock and are able to show a balance sheet when the field is cleared. We hear of one nursery company where such an exact cost account system is conducted. This system enables the management to sell their product profitably and intelligently. Is not this a question well worth considering by the tree growing fraternity?

PARK COMMISSION ORDERS.

In our association with civic improvement organizations in different parts of the country we have been struck by the tremendous variations in price of ornamentals quoted by the different nursery firms. In the manufactures there are small differences but these are usually accounted for by influence of transportation charges, character of manufacture, and quality of goods. In the nursery business there is of course abundant opportunity for great variation in the quality of nursery stock ; but there should be no good reason why one man will offer in large quantity a standard ornamental at six cents and another man ask sixteen for the same size and age. There is a lack of understanding, a lack of co-operation which cannot help but work injury to the trade ; for where such extraordinary differences in price prevail without any accompanying sufficient reason, suspicion is engendered and the integrity of the business is to that extent discredited. We confidentially believe that nurserymen are getting together on these points, and we shall hear less of this sort of thing in the future than in the past, but there is still great room for improvement.

CANADIAN TARIFF CHANGES.

The Canadian tariff makes changes in the duties on various fruits and vegetables among which are the following : potatoes stand 12½ cents, preferential, 17½ intermediate, and 20 cents general ; tomatoes, 20% ad valorum : plums, 30 cents a bushel.

ASSOCIATION MATTERS.

FOR AN EXCLUSIVE ACTIVE MEMBERSHIP.

A Rochester (N. Y.) periodical designating itself as the "chief international journal of the nursery trade," is advocating in its columns changes in the operations of the American Association of Nurserymen whereby "only nurserymen should be accorded the privilege of conducting the affairs" of that organization. It is pointed out that as originally formed, in 1876, the title was "The American Association of Nurserymen, Florists and Seedsmen." Since that time the florists and the seedsmen have formed their own societies; and although in 1887, the name of the original organization was changed to the American Association of Nurserymen, it seems the original constitution was altered only as to the name, for to-day it reads: "This association shall be known as the American Association of Nurserymen, and shall embrace nurserymen, seedsmen, florists, horticultural implement makers, and dealers in supplies."

Now, however, our esteemed Rochester contemporary desires to draw the line for active membership, with full privileges, including the right to vote on all questions before the organization, of "those who are actually engaged in the nursery business," those who are engaged in "allied trades," such as florists, seedsmen, etc., our contemporary would consider only eligible to associate membership, who "shall have the privileges of the association with the exception of voting."

We are informed by our esteemed contemporary that "there are many reasons why the active membership of the organization should be restricted to nurserymen. In the early years of the society's existence, the desire to acquire strength rapidly, led to the opening of the door to those who in any way had dealings with nurserymen from the point of view of allied trades. But the nursery trade of itself had expanded to such a degree, and the field from which strictly nurserymen can be drawn for members has become so large that the trade is entitled to a national association which shall directly and exclusively represent its interests." That is one reason, and, we think, one not showing much gratitude, surely, to those "allied traders" who took advantage of the open door to help the infant organization to "acquire strength rapidly."

"But what direct interest has the manufacturer of spraying machines or the printer or lithographer or the label or box strap maker in questions of legislation relating to the inspection of nursery stock or negotiations with railroad companies regarding the shipment of trees?" queries our contemporary. We don't believe they either have or take any "direct" interest in such weighty matters, although their interest in a general way, in everything calculated to benefit the trade from the operations of which a part of their income at least is obtained, is surely not one of complete indifference.

These appear to be the only two of the "many reasons" cited by our contemporary in support of its proposition. Several letters are published, the writers of the majority of which favor exclusiveness. One correspondent says he does not "think there should be any objections to florists being active members of the association," which shows that his head is level.

Vice-president J. W. Hill of Des Moines, Ia., champions the cause of the "allied traders" adding, "I do not feel that we need to fear their action upon matters brought before our association; for none is of so great import as to justify the active nurserymen depriving any member of a vote upon these questions."

We ourselves are ignorant of the "black gentleman in the wood pile" on this occasion, but it seems to us the whole agitation is a "tempest in a teapot;" or probably—a bid for a bit of cheap notoriety. There are evidently some liberal-minded, sensible men among the nurserymen, members of their association, who believe that numerical strength has its value in several ways; and so far as the florists' connection with the nurserymen's association is concerned, is was only last year at Dayton, O., that ex-President E. Albertson made an appeal to all florists dealing in nursery stock to become members of the American Association of Nurserymen, and in other ways to co-operate in the carrying on of its work.

Members of allied trades have their uses—good ones, too—in organizations of the class to which the nurserymen's association belongs. For instance, a printer is chairman of the committee of the A. A. N., and his voice is often heard in its important deliberations. In our own S. A. F. O. H., yeoman service has many times been rendered by members of "allied trades." Last year, at Dayton, what more convincing arguments were put forth on the injustice of the tariff on glass, etc.; what better advice as to ways and means to secure redress tendered; than by a member of the "allied trades!" Then again, were there ever prettier flowers of speech presented on the floor of a convention, swinging a candidate—who had no opposition—into the presidential chair, than the oratorical bouquets that issued from the lips of an "allied trader," of the S. A. F. O. H.!

Taking into account services rendered, value received in many ways, who but the most narrow-minded and illogical would seek to deprive of his vote, any man progressive enough to join an organization like the American Association of Nurserymen? All the most important work of almost every organization is done by committees. Let these, if you will, be composed of individuals "actually" engaged in the trade or industry represented by the association; but place no barrier in the way of smooth and amicable working, or of a satisfied allegiance, barriers which can only breed discord and tend to disruption.—*Florists Exchange.*

PROGRAM COMMITTEE.

The chairman of the program committee, Judge Stark of Louisiana, writes us that he with the other members of the committee is developing the program as rapidly as possible, and the outlook is favorable for a most attractive and instructive bill of fare. The main idea is to have a series of discus-

sions revolving around certain salient topics. For instance, one of the features will be a symposium on the "growing of cherries," and such men as W. F. Heikes, J. W. Gaines, Harry Simpson, and others, all gentlemen who have made notable successes in cherry growing, will contribute to the subject matter under this head. The peach will be another class of nursery stock which will receive special attention at the hands of J. C. Hale, W. T. Hood, F. D. Green, and others. The program committee has several topics of this kind which they will present under the direction and guidance of specialists. Preparing nursery land is one of them; the spraying of nursery stock, the storage of nursery stock will be handled by men skilled and successful in these particular lines.

In the field of technical work, the subject of crown gall and hairy root of the apple will be again discussed by Mr. Hedgcock, who has been investigating the problem for the past three or four years on behalf of the Department of Agriculture.

Judge Stark and other members of the program committee are particularly anxious to get in touch with those persons who are competent and willing to present crisp, practical addresses on subjects of present day interest to the nurseryman. They will also be grateful for suggestions and wish nurserymen in general to realize that questions sent to them in advance of the meeting will be included on the program, and efforts will be made to secure men well qualified to answer them. The question box, in other words will be in order periodically throughout the convention, and will be made a strong feature. Let every member co-operate with the program committee so that the convention will be everything that we should expect it to be.

A SERIOUS AFFAIR,—OPPORTUNITY FOR LEGAL TALENT.

EDITOR NATIONAL NURSERYMAN,

Dear Sir:—Please give us the address of some good, fair and square judge in Rochester, before whom we can bring an action for libel against yourselves. In the article upon "Association Matters," issue of March, we are referred to as "A *lonely* Box Strap Manufacturer". It is a base libel. The writer had the gratification of attending the convention at Dallas, and was neither lonely or lonesome. He took in Watson's address of welcome, the water melon contest, the generous hospitality of Texas generally, the banquet, Mr. Josselyn's feast paper, and Colonel Moss' punch, and some other things, "Lonely" eh? What is your plea, guilty or not?

As to whether we outsiders should be allowed to take part in the proceedings of the convention, will say for ourselves, all we ask is an opportunity, "to be seen, and not heard." Don't believe we have any business occupying the conventions time, or voting on resolutions. The nurserymen seem to be entirely capable of managing their own affairs successfully. We say successfully, because we sell over 300 of them, and so far have never lost a dollar by a nurseryman's account. We never feel "lonely" in such company. We agree with Mr. Josselyn,—"Blest is the man who shuns the place where sinners love to meet." We therefore choose the nurserymen, and hope they won't get so exclusive, as to freeze us out.

Yours very truly,

WARD-DICKEY STEEL CO.,

W. C. Dickey, *Sec. and Treas.*

Doings of Societies.

FEDERATION OF NEW ENGLAND HORTICULTURAL SOCIETIES FOR THE MARKETING OF FRUIT.

An important meeting was held in Worcester, Mass., March 13-14, under the auspices of the Massachusetts Fruit Growers' Association. The main purpose of the convention was to discuss the question of "What legislation, if any, is needed to regulate the grading and the marking of fruit for home and foreign markets?" Delegates were present from all the New England states and from New York.

The present status of co-operative effort in the marketing of fruit was discussed. Fruit standards were described, fruit packages considered, and the fruit marks Act of Canada carefully examined. The outcome of the conference was a recommendation by the members and delegates that a federation of the New England horticultural societies should be effected for the purpose of studying fruit standards, packages and possible legislation looking towards the unifying of all these factors bearing upon the marketing of our fruit. By resolution it was agreed that each society should send delegates to other societies at the time of their annual or called meetings, so that such action as might be taken would be considered binding on the whole.

CONNECTICUT NURSERYMEN ORGANIZE.

On March 5th, the nurserymen of Connecticut assembled in New Haven and organized the Connecticut Nurserymen's Association. The following officers were elected: John S. Barnes, of "Barnes Bros.," Yalesville, President; R. H. Gardner, of "Gardner's Nurseries," Cromwell, Vice-President; Frank E. Conine, of "The F. E. Conine Nursery Co.," Stratford, Secretary; W. W. Hunt, of "Hunt & Co.," Hartford, Treasurer; Mr. Edwin Hoyt, of "Stephen Hoyt's Son's Co.," of New Caanan, C. R. Burr, of "C. R. Burr & Co.," of Manchester and E. F. Coe, of "Elm City Nursery Co.," New Haven, Members of the Executive Committee. Committees were appointed on Legislation, Freight and Express Traffic, &c. Next meeting, same place, March 15th, 1907.

Wisconsin State Horticultural Society will meet in Madison, February 5-7. President, T. E. Loupe, Eureka; Secretary, F. Cranefield, Madison. A good program including amateur as well as professional fruit growing problems has been provided.

Louisiana State Horticultural Society will hold its fourth annual meeting at Lake Charles, April 3-4-5. An attractive program has been arranged, covering the different types of activity of the Louisiana fruit growers. Among those who will take part are Prof. Wilmon Newell, state entomologist Prof. F. H. Burnette, of the State College, Dr. A. J. Perkins, Lake Charles, and Dr. S. A. Knapp, of the United States Department of Agriculture.

THE NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Gentlemen:—

We acknowledge receipt of your favor of the 7th inst. and enclose New York draft for $1. in payment of your paper for another year.

We always feel that this is a very good investment as each number of your paper seems to improve over the previous one.

Yours very truly,

The National Nurseries.

E. H. BALCO.

Quiz Column.

PROPAGATING ALTHEA.

How is the wood of Althea best propagated? BEGINNER.

I.

The Althea can be grafted either on whole roots or piece roots. We have tried them both ways and have had good success in either way. We prefer, however, to use whole roots, as we get a stronger growth from our graft the first year. In grafting them, we handle them just the same as you would apple stocks.

The Althea can be grown from hard wood cutting, providing the wood is cut late in the fall, before it is frozen. We find if the wood is touched by the frost, before the cut is made, we get a very poor stand.

Dreshertown, Pa. THOMAS MEEHAN & SONS, Inc.

II.

Althea Frutex (Hibiscus Syracus) gives the best results when grafted on whole root seedlings.

The majority of the Altheas can be propagated from dormant cuttings but it is more satisfactory to graft on whole root seedlings as you get better results.

Augusta, Ga. P. J. BERCKMANS CO.

"SPECIAL PROCESS" GRAFTS.

EDITOR NATIONAL NURSERYMAN.

Please pardon me, but I write you for information. Some nurserymen claim that they have a special process of grafting apple trees which is superior to others, hence claim they have better trees to offer to the trade. I would deem it a favor and would be very thankful to you for what information you could give me on this topic. Also would ask, when is the best time to cut the scions and how should they be handled? After the grafting is done which is best, or is there any difference in placing the grafts after being tied up into bunches in the cellar to awaiting planting, in a perpendicular or horizontal position, or in other words to place the bunches standing up or laying down?

I have lived here 20 years and all this time have been trying to make trees grow here. As this is a very dry atmosphere I have met many difficulties, but through it all have succeeded fairly well and have a little forest on the prairie with a small nursery and a comfortable home, and have a great many thousand evergreens which I am trying to induce home builders to purchase, protect and beautify their homes with. J. R. JONES, S. D.

Answer: First—There is no special secret nor any particularly successful method of grafting apple trees. There are three or four methods, but as a matter of fact nineteen twentieths of all the apple grafts made in the country are made by the whip method. There is more variation in the way of binding the joint than in making the graft. Some use waxed string and others waxed cloth. In regions where root knot is abundant it appears that the string encourages development of this trouble. Hence, we think there is very good argument in favor of the waxed cloth bandage. In order to secure the largest measure of success in root grafting, one must simply follow those principles that govern success in practically nearly all lines of tree handling. Your roots must be healthy and must well cared for. Your scions must not be kept in sand or saw-dust so damp that they will become water-logged. Neither should they be allowed to dry so much that they will shrivel. In your locality you should always cut your scions before hard frost but not before they are well ripened. Pack them tightly in paper-lined boxes with forest leaves, and store in pit or cold cellar.

Instead of tying your grafts in bundles I would advise packing them in layers, using sand or clean garden loam as packing material. Sand is better than loam because it does not encourage the graft box fungous. If you set your box on end, place a layer of dirt, then on this spread a row of grafts, cover with a layer of dirt, and so on till your box is filled, you will have your grafts packed as they should be.

The claim that some nurserymen use secret and special methods in the propagation of grafts is largely a "tree missionary song," and we would not take much stock in it.

We are pleased to know you are encouraging the planting of evergreens. If you choose good, well adapted varieties like Black Hill Spruce, Platte River Cedar and Austrian Pine, your purchasers will rise up and bless you. But we fear that if you attempt to sell the Eastern evergreens you will bring disappointment on your customers. Wishing you all success. EDITOR.

Note and Comment.

OILED ROADS IN BOSTON PARKS.

The Metropolitan park system of Boston has interested itself in experiments with different grades of oil and different methods of applying oil to the surface of roads, for the purpose of ameliorating dusty summer conditions. A Texas petroleum with an asphaltum base was used in the form of 65% emulsion of oil. The cost amounted to $238 per mile for four or five sprinklings. Mr. Pettigrew, the superintendent, concludes after a season's experience that the experiment has been successful in laying the dust and preserving the surface of the road from erosion by heavy rains.

KELSEY AND GUILD IN CIVIC IMPROVEMENTS.

Mr. Harlan P. Kelsey with his partner, Mr. Guild, in landscape architectural work are making a report for the municipal league of Greenville, S. C., on the possibilities of beautifying and improving that city. This firm has been doing a good deal of this type of work. Recently they have presented the city of Columbia, S. C., with a similar report which has been adopted and is used as a working basis in the development of civic beauty. Mr. Kelsey, as chairman of the civic society of Salem, Mass., is preparing a report on the care and treatment of the street trees of that city.

SOUTH AFRICAN PEARS IN NEW YORK.

Some time ago we noted the arrival in New York of South African peaches. This fruit has been succeeded by a consignment of pears from the Export Association of South Africa. The shipment comprised 250 boxes of Bartletts. They were well packed in small boxes holding from 18 to 25 specimens each. These sold at $3.00 per box. It is stated that some of the earlier shipments of peaches wholesaled at a figure which brought each peach up to 25 cents apiece, and that in retailing the peaches sold as high as $9 00 a dozen, or 75 cents apiece. This sounds like London prices, and if fruit of this class can be sold at these prices in the New York market there is an opening for the man who will grow the forced article.

SOUTH FLORIDA GROWERS ORGANIZE.

The Biscayne Bay Fruit and Vegetable Growers' Association was organized on March 15 at Lemon City, Fla. The objects of the organization are to secure equitable freight and express rates, improved transportation facilities, to attend to the collection of claims and in general to promote the interests of the fruit and vegetable growers and shippers of the locality. Some thirty growers joined the association.

FRUIT CONDITIONS IN MICHIGAN.

A report offered at the meeting of the State Fruit Growers regarding the amount of damage done by the great October freeze of 1906 is rather pessimistic. Estimates of the number of trees killed vary from 50 to 75%, and there is no dodging the conclusion that this freeze, coming unprecedentedly early, was the greatest disaster that ever befell the fruit industry of western Michigan.

LIGHT AND PLANT GROWTH.

Recent investigations by European scientists have shown that plants may suffer from excessive illumination as well as from insufficient illumination. Some English experimenters by covering plants with spray mixtures have shown that the greenness of the leaf is intensified as much by the shutting out of the rays of the light as by the specific effect of the material used in covering them. On this basis the spraying of the leaves of trees causes them to remain green and hang on longer as much on account of the protective influence of the spray against the sun as on account of its fungicidal or other influences. There is no doubt that greenhouse men have learned that the right amount of shade is very essential to the growing of many plants aside from the so-called shade loving kind. It may also be noted that in midsummer when the light is strong the leaves of most of our trees become smaller, less vividly green, and are apt to drop comparatively early. The poorer the leaves, naturally the weaker the growth. The moral is that in intensive culture a judicious amount of shade can often be used with advantage.

Business Movements.

COLD STORAGE CONSTRUCTION.

L. L. May & Company, of St. Paul, are building a large cold storage warehouse, 200 x 160 feet in dimensions, which is to be equipped with an overhead track system for the transportation of the boxes. The building will stand adjacent to the tracks of the C. M. & St. P. Ry. Co., and in this way will give them greatly improved facilities for moving stock early in the season.

Mayfield Nurseries of St. Paul, Minn. report that the winter has been quite severe during February, but that the heavy snowfall has protected the roots of the trees. The promise for large spring shipments is excellent.

McKinney Nursery Co., Texas. Messrs. E. W. Kirkpatrick, A. B. Mayhew and C. C. Mayhew have incorporated their company under the above name, with a capital of $20.000.

A LARGE ORDER.

The Washington Nursery Company, of Toppenish, Wash., has contracted to furnish the Arcadia Irrigation Association of Spokane, one million apple trees. This latter association is interested in developing a large tract of irrigated country in the state of Washington. The president of the Washington Nursery Company is Mr. A. W. McDonald. This company with the Oregon Nursery Company maintain a joint office in Detroit, Michigan, which is under the management of Mr. P. A. Mitchell. He has recently made a visit to western New York, where he called on the leading nurserymen of Geneva, Rochester and Dansville. He reports a pleasant visit and returns with an excellent impression of the hospitality of New York nurserymen.

REORGANIZATION OF SHADY HILL NURSERIES.

Some little time ago all of the real and personal property belonging to the Shady Hill Nursery Company, of Bedford and Boston was sold under foreclosure of mortgage, and the mortgage holders bought in the stock and incorporated under the name of The New England Nurseries.

All of the officers of the company have retired from the business and it has been furnished with ample capital to run it in the best possible manner. Mr. A. E. Robinson, (lately with the Bay State Nurseries), has taken the actual management of the business and Theodore J. Smith, of Geneva, N. Y., has also taken an interest and will act as president of the company.

Much of the stock taken over from the Shady Hill Company is very valuable, and this stock will be supplemented by stock from The Geneva Nursery when necessary.

A. J. PERKINS IN THE ORIENT.

The attractions of the islands of the Pacific are drawing many travelers in that direction. Mr. A. J. Perkins, of Jackson & Perkins Company, after spending some weeks in California, is now traveling in Japan. He will tour Japan and visit the Sandwich Islands before returning home.

Mr. J. McHutchison, of the firm of McHutchison & Co., 17 Murray St., New York, sailed on S. S. Amerika, March 21, for a six weeks' business trip to Europe.

LUDWIG MOSBÆK & SON.

Mr. Mosbæk & Son, formerly of Illinois, have settled in Partridge, Minnesota, where they have purchased 250 acres of land, and will engage in a general nursery and plant business.

CHANGE OF ADDRESS.

NATIONAL NURSERYMAN CO. :

Enclosed find check for $1.00 on subscription. I wish the paper sent after April 1st, to Fall River (R. F. D. No. 1), Tennessee, as I have sold out here and going to continue in the business at that place.

Please make note of my change of location in the NATIONAL NURSERYMAN.

With best wishes for the success of the NATIONAL NURSERYMAN, I remain,

Yours respectfully,

Ellenboro, W. Va. L. H. GARRETSON.

Transportation.

TRANSPORTATION DIFFICULTIES.

SHIPPERS' DIFFICULTIES IN WESTERN NEW YORK.

The latter part of January and the early part of March saw the apple shippers and vegetable shippers of Western New York in a very embarrassing and unfortunate condition. The district between Rochester and Buffalo suffered acutely from lack of cars to handle the produce, and protest after protest was lodged against the service of the New York Central Railway. It appeared that the shortage of cars was due to an actual deficiency in the number of cars owned by the railroad. The freight carrying facilities of the New York Central were quite inadequate and appeared considerably demoralized as well. This, coupled with the somewhat sluggish condition of the market, placed apple men in a discouraging position.

The produce men of Western New York have taken up the problem. Two meetings were held, one in February and one early in March, to discuss the matter and formulate ways and means of improving the situation. Representatives of the New York Central were present at both meetings. At the first meeting these representatives promised speedy redress, but at the second meeting held two weeks later, the commission men were vehement in their statement that the conditions were worse than ever ; and this meeting resulted in the sending of a delegation to Washington for the purpose of interviewing the interstate commerce committee. More recently the situation seems to have improved somewhat.

It is reported that large quantities of perishable produce have been wasted by absolute inability to secure cars to transport it to market.

GEORGIA FRUIT SHIPPERS.

The Georgia Fruit Growers' Association met in Atlanta February 22nd. The important action of this body, which was represented by delegates from Florida, Tennessee, Alabama, and South Carolina, was the raising of a fund for the purpose of bringing complaints of the growers before the Interstate Commerce Commission. This commission is authorized under the new rate law to compel railroads to adopt certain rates. Members are to be assessed an amount ranging from 25 to 50 cents per thousand trees. The meeting was attended by upwards of 200 fruit growers.

TRANSPORTATION DIFFICULTIES IN CALIFORNIA.

The California citrous shippers are experiencing the same kind of difficulty which the eastern apple growers have been wrestling with during the winter months, namely, the shortage of cars. It is said that the failure of the railroads to supply sufficient cars will prevent growers from getting their stock to the market. The transcontinental lines seem to be absolutely unable to cope with the situation.

THE NATIONAL NURSERYMAN PUB. CO. :

We hand you check herewith to cover year's subscription to the NURSERYMAN. The paper is improving, as it should, with age.

Yours truly,

Topeka, Kansas. L. R. TAYLOR & SONS.

Fruit and Plant Notes.

SPRING FLOWERING SHRUBS.

With the arrival of April we have the on-coming of the first flower-bearing shrubs in our lawns and gardens. One of the most decorative and attractive groups is the forsythia. There are two types of this genus, one rather stiffly erect and the other gracefully drooping. The drooping forsythia is much the more attractive, although as a rule it does not bloom as freely as the erect form, viridissima. One of the mistakes in growing the forsythia is to prune it during the dormant season. The flower buds are formed in the fall, and winter pruning of any kind tends to lessen the amount of flowering wood. The pruning should be regulated to meet the needs of the plant, that is to say, whether the plants are grown as individuals or in the mass. If grown for mass effect very little pruning is required other than the cutting out of the weak and older branches If heading back is required, it should be done just after the blooming season is over. The common name of the forsythia is the golden bell, suggested by the attractive bell-like form of the flowers.

Another handsome early bloomer is the American red bud, (Cercis canadensis). This tree is a native of the middle southwest, but is quite hardy, and can be grown as far north as the 42nd parallel of latitude. The flowers are a magenta red and appear thickly clustered on the shoots in advance of the leaves. At that time and blooming as freely as it does, the shrubby tree attracts a good deal of attention. We have too, at this time, the June berries. They are found distributed very widely over the country and run far north past the northern boundary of the apple line and into the frigid regions of the Canadian west. Quite a number of these trees are in cultivation. The tallest one is the Amelanchier Canadensis. There are several smaller forms which are useful in shrubby borders and for mass effects.

Another very attractive spring plant is the Daphne cneorum. It is sometimes called the olive spurge, a not very attractive name, certainly not in keeping with the natural beauty of the shrub. This little woody plant grows three or four feet high and bears small pink flowers in clusters from the middle of May until almost the first of July. The flowers are very delicately scented and exceedingly attractive. One of the reasons that we see so little of this plant in cultivation is that it is very difficult to propagate. Growing it from cuttings is impracticable and it layers with a good deal of difficulty.

GRAPES IN NEW YORK.

The interesting fact has been recently developed that New York stands next to California in the importance of its grape interests. The yield approximates 230,000 tons annually, and the acreage is divided as follows: Chautauqua district, 30,000; Keuka Lake district, 5,000; Canandaigua Lake, 5,000; Seneca Lake, 5,000; Hudson Valley, 3,000. One of the serious enemies of the grape in New York during the past few years has been the black rot, and plant pathologists are now studying ways and means of preventing it with great care.

Reports from Maryland state that peaches have been badly injured in that region. Some large growers in the Mont Alto peach region report that the fruit buds are all killed. There is no doubt, however, that some regions will be found later on to have escaped.

PEAR BLIGHT IN COLORADO.

Bulletin 118 of the Colorado Experiment Station reviews fruit conditions of the western slope. It pays special attention to the diseases of fruits in that region. Pear blight as in California seems to be one of the dangerous enemies. In that region, little difference in the amount of blight is shown between trees in cultivation and those in grass. Among varieties which are most susceptible to blight are Flemish Beauty, Clapp and Idaho. The working over of blighting varieties to non-blighting kinds is not advised because it has been discovered that the tendency is for the blight to invade the stem and main branches of the stock.

In the apple the greatest damage is done to the twigs and blossoms. The blight does not as in the case of the pear attack the larger limbs to any great extent. The spur blight, however, is severe. In pears the varieties most immune are Kieffer, Anjou, Howell and Seckel. Among apples, Winesap, Gano and Ben Davis are most resistant.

PROTECTION FOR THE ORIGINATORS OF NEW FRUITS.

MUCH NEEDED, IT IS ALLEGED, IF THEIR INTERESTS ARE TO BE CONSERVED.

"Much interest is taken by nurserymen in this vicinity in a bill which will shortly be introduced in Congress providing for the patenting of new strains of fruit and ornamental plants. Joseph Moore, who conducts an experimental nursery near Canandaigua lake, believes that the only hope for improvement of nursery stock lies in the passage of this measure, which he says, would obviate the evil of substitution of older and inferior varieties of plants for newer and fresher strains.

The ease with which this substitution can be effected, says Mr. Moore, has well nigh extinguished the art of producing new varieties of stock and has deprived many originators of improved strains of the proper reward of their exertions."—*Democrat and Chronicle.*

"MEEHAN MALLOW" A NEW PLANT.

"Among the novelties to be seen in the horticultural exhibits this year is a new and beautiful flower that has recently been developed.

The chief impetus which impels the horticulturist to try and create some new flower is a commercial one. Nevertheless, it can only be realized by patient, directed effort; then the success of his efforts will be crowned with the same kind of joy that the able patient botanist realizes. In addition, however, there is always before him the possibility of very large reward, as a successful novelty is as valuable to the horticulturist as a heavy assay of a quartz vein is to the gold miner.

The old Philadelphia firm of Thos. Meehan & Sons, Inc., is one of those horticultural establishments which has recognized the great opportunity that lay in the possibilities of plant breeding. After four years of patient effort they have been rewarded with success. They have produced what is without doubt one of the most beautiful flower creations of this last decade. It is a new 'mallow,' a result of crossing a non-hardy southern variety with the common northern variety.

The late Thos. Meehan suggested that it might be improved by hybridizing with closely related plants, so the old-fashioned hollyhock and the althæa, both of which belong to the mallow family, were used for this purpose, but without success.

Among the extensive collection of plants in the nursery was a mallow of a very brilliant color. This was not hardy as far north as Philadelphia, and so, of course, had to be grown in the green house. The color was so brilliant that it really suggested itself as a likely subject to hybridize with the common mallow, with a view to making it hardy enough to withstand the northern winters. Having failed with attempting too violent a cross, such as by use of the hollyhock and althæa, the pollen of a very hardy hibiscus with a closer botanical relationship was used. The pollen of the latter was used to fertilize the brilliant colored one, with the hope that the progeny resulting from the cross would retain the color and be hardy in the northern states, or, in other words, combine the hardiness of the pollen parent with the brilliant color of the seed parent. This proved a success; the pod or seed ripened and was sown in the open ground. One of the seedlings had the dazzling brilliant color, and proved to be quite hardy, standing out unprotected. In fact, the original plant is still growing on the nursery. The offsprings of this cross were again crossed with varying forms and with excellent results. The work of crossing was done by Ernest Hemming, of Germantown, who is naturally much gratified at the results of his continued efforts.

The hybrid plants will be exhibited by Thomas Meehan & Sons for the first time at Jamestown and are representative of two years' growth from seed. They will give the visitor a fair idea of what they are like; but, as stated before, the improvement is still going on, and each succeeding year will see marked improvement."—*Germantown Inquirer.*

NATIONAL NURSERYMAN.

I enclose M. O. $1.00 for renewal one year. Please so credit, and oblige. JNO. S. KERR.

The National Nurseryman is invaluable to a nurseryman. J. S. K.

Catalogues Received.

Huntsville Wholesale Nurseries, Huntsville, Ala. Bulletin No. 2 of surplus stock, March 13, 1907.

Carr's Nurseries, Yellow Springs, Ohio. List of surplus stock of evergreens for nursery planting, spring, 1907.

Oak Lawn Nursery, Huntsville, Ala. December bargain list of nut trees, peach trees, etc.

Winfield Nurseries, Winfield, Kansas. Surplus and want list, spring, 1907. Surplus list No. 2.

Reading Nurseries, Reading, Mass. Price list of hardy rhododendrons, azaleas and the mountain laurel to accompany Manning's monograph. No. 2.

Thos. Meehan & Sons, Dreshertown, Pa. Wholesale trade list, spring, 1907, giving prices on deciduous trees and shrubs, evergreens, climbers, etc.

Mount Arbor Nurseries, Shenandoah, Iowa. Bulletin No. 1, with wholesale prices for leading varieties of stock unsold March 6, 1907.

Hopedale Nurseries, Hopedale, Ill. Surplus list for wholesale trade only.

Huntsville Wholesale Nurseries, Huntsville, Ala. Bulletin No. 1, surplus stock, March 4, 1907.

Geo. R. Schauber, Ballston Lake, N. Y. 1907 catalogue of strawberry plants.

Ellwanger & Barry, Rochester, N. Y. Catalogue of novelties and specialties, neatly illustrated.

Arthur J. Collins, Moorestown, N. J. Catalogue of trees, plants, spraying materials, etc.

Oak Lawn Nursery, Huntsville, Ala. March bargain list, 1907.

Geo. S. Josselyn, Fredonia, N. Y. Catalogue of grape vines, spring, 1907.

T. S. Hubbard Co., Fredonia, N. Y. Wholesale price list, 1907. Grape vine specialists.

R. M. Kellogg Co., Three Rivers, Mich. Great Crops of Strawberries and How to Grow Them. Being a descriptive price list of strawberry plants.

J. G. Harrison & Sons, Berlin, Md. Catalogue of strawberries, peaches, pears, etc., 1907.

DISSOLUTION NOTICE.

Onarga, Illinois, Dec. 31, 1906.

The partnership agreement heretofore existing between L. J. Risser and Ludvig Mosbæk under the firm name of Ludvig Mosbæk, is hereby dissolved by mutual consent. All debts owing to the firm of Ludvig Mosbæk and all debts owing by the firm have been assumed by the new business which will be continued under the name of the Mosbæk Greenhouse Company of Onarga, the Iroquois Canning Company of which Mr. L. J. Risser is President, succeeding to the business.

L. J. Risser.
Ludvig Mosbæk,

BUSINESS ANNOUNCEMENT.

Partridge, Minnesota, March 1, 1907.

We hereby announce to the trade that we are located at Partridge, Minn., where we will be engaged in growing and selling seeds, plants, trees and small fruit, and beg to be placed on your mailing list for catalogs, wholesale and surplus lists.

Respectfully,
Ludvig Mosbæk & Sons.

Mr. A. J. Perkins, of Jackson & Perkins Co., Newark, New York, is enjoying a very delightful trip. After a winter in California at the branch nursery of Jackson & Perkins Co., he is now spending several weeks in the Sandwich Islands and expects to sail March 15th from Honolulu for Yokohama. He will remain in Japan several months and will visit the leading nurseries and places of horticultural interest. Mr. Perkins is a very well informed botanist which, along with his knowledge of commercial horticultural, should enable him to make the trip a particularly interesting and profitable one.

THE FEDERATION OF TRADE PRESS ASSOCIATIONS IN THE UNITED STATES.

Boston, March 30, 1907.

Dear Sir—The present postal agreement between the United States and Canada expires on May 7th, and the Canadian Government has given notice to the United States Government that they desire to abrogate that part of the treaty relating to what we call second-class mail. Unless a new agreement is made on more favorable terms than now proposed, the regular postal union rate of 1c. per two ounces will probably be levied on all publications passing between the two countries; in other words, 8c. per pound instead of 1c. per pound, as at present.

Henry G. Lord, Secretary.

NOTICE TO CANADIAN SUBSCRIBERS IN ACCORDANCE WITH THE ABOVE.

The present postal treaty between the United States and Canada expires on May 7th next. The Canadian Government has before it a proposition to increase the rate of postage on periodicals from the United States to such an extent as to render it necessary for American publishers to raise their subscription price to Canadian subscribers from fifty to one hundred per cent. If Canadian friends of The National Nurseryman object to such an increase of prices, it will be well for them to make known their objections at once to the Canadian postal authorities.

C. L. Yates,
Business Manager and Treasurer
National Nurseryman Publishing Co.

National Nurseryman Pub. Co.,
Rochester, N. Y.

Dear Sir:

Inclosed find P. O. Order to renew my subscription to the National Nurseryman. I have been a subscriber to your valuable paper for a number of years and have done some advertising that has paid me a thousand fold. I like your paper. Could not be without it.

Yours Respectfully,
Jas. Cureton.

Brenham, Texas, Feb. 3d, 1907.

National Nurseryman Pub. Co.,
Rochester, N. Y.

Dear Sir:

Enclosed please find $1.00 for renewal to your invaluable journal. I always read the National Nurseryman with both pleasure and profit. Wishing you continued success, I am, very truly yours,
W. A. Yates.

Winfried Rolker, of the firm of August Rolker & Sons, 31 Barclay St., New York City, called on nurserymen and florists in Western New York last month.

W. B. Van Eyk, agent for P. Berbee, Holland, G. W. Van Gelderen and A. De Koker, Belgium, visited Rochester nurserymen the last days of March.

The National Nurseryman:

Enclosed you will please find $1.00, covering our subscription to the National Nurseryman. Your journal is undoubtedly a valuable one and it should be encouraged in every possible way.

Yours very truly,
Francher Creek Nurseries.
G. C. R.

Fresno, Calif.

Ed. National Nurseryman:

Find enclosed $1.00, for one more year's subscription to your valuable paper. We have been receiving your issue regularly for 10 years or over, and expect to for 10 more, if present good standard is maintained.

W. T. Mitchell & Sons.

Beverly, Ohio.

Obituary.

JAMES DRAPER.

On March 13, at Worcester, Mass., James Draper, who for many years was a prominent figure in the agriculture and horticulture of the State, passed away. His chief work was in connection with the state grange, of which he was for a number of years master, the Massachusetts Agricultural College where he served as trustee and president of the board for several years, and as chairman of the park commission of Worcester. Mr. Draper began life as a market gardener, but extended his business rapidly in response to the demands of the trade, and for a number of years was recognized as a prominent nurseryman and landscape architect. His demise is widely deplored and his loss will be deeply felt in the horticultural councils of the State.

BILL TO PREVENT PACKING AND SELLING FRUIT NOT GROWN IN NEW YORK AS EMPIRE STATE FRUIT.

Assemblyman M. E. Eggleston of Albion, N. Y., is introducing a bill as an amendment to the agricultural law for the protection of New York State apples, peaches and pears. It is claimed that apples from other states are shipped in here, repacked, and sold as New York State fruit. The bill prohibits the sale or exposure for sale of apples, pears, peaches in New York as New York fruit, if they were not grown within the State. It also prohibits the labeling of packages as New York State products if they were grown outside its borders. The bill goes further in that it provides that in the packing or re-packing of apples, each package, whether barrel or box, shall contain a uniform grade of apples. The penalty is a fine of from $50 to $100 for first violation, and from $100 to $200 for repeating the iniquity.

FLORIDA PINEAPPLE GROWERS.

The Pineapple Growers' League of Florida met at Fort Pierce on March 22nd. There were present thirty five or forty of the prominent growers of the State. Freight rates and other railroad matters were discussed. Very little time was given to the consideration of cultural methods, but the question of how to get the crop to the market was the burning one. The next meeting will be held at Jensen, in August.

A VIRGINIA ORCHARD COMPANY ORGANIZED.

The Alkire Orchard Company was organized at Richmond on the 21st of March. The purpose of the Company is to develop fruit lands in Minerals County. The capital is $50,000 and the incorporators are V. E. Alkire, E. E. Springer, J. H. Markwood, I. M. Long, O. A. Hood, and T. T. Hoffmann.

PEACH PROSPECTS IN GEORGIA.

Up to the first of April the prospects for a crop of peaches in Georgia was fairly encouraging. While it is estimated the freeze of December reduced the prospective crop twenty-five to thirty per cent. there is sufficient remaining to give a good yield if nothing prevents its maturation. The same difficulties which fruit growers are experiencing the country over prevail in Georgia, namely, the car shortage. Whether the situation will be improved by the time the fruit is harvested is a question.

ORLEANS COUNTY (N. Y.) FRUIT GROWERS FIGHT SAN JOSÉ SCALE CO-OPERATIVELY.

One of the best instances of effective co operative work in fighting a common enemy is to be seen in the organization of the Orleans County Fruit Growers' Association. This society has a committee appointed for the special purpose of combating the spread of San José scale in the county. Their plan of operation is to first raise a common fund which can be used for the purpose of spraying small orchards where owners are unable or unwilling to incur the expense, and further to maintain a system of inspection. In the prosecution of the work, district stations have been established where insecticides are prepared, and offered to those who desire to use them as well as being available for the direct purpose of the committee in charge.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,

WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

I have for sale preferred stock in a well known and profitable Nursery Company, paying net over seven per cent. This business has been established many years by present owners. There is a good opening for young man to take block of this stock with position as bookkeeper and office work at a good salary. Particulars will be fully given to parties meaning business.

See or write, W. L. PORTER,

431 BRISBANE BUILDING, BUFFALO, N. Y.

ESTABLISHED 1868.

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(INCORPORATED)

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

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The annals of historical literature record no more brilliant and masterful piece of writing than Woodrow Wilson's epoch-making work in five volumes—"A History of the American People." It is written in a delightfully flowing, crisp, narrative style which translates historical facts into the romance of a nation.

Many artists of distinction have contributed to its pages and remote historical archives, long-forgotten deeds and governmental records have been searched for pictorial contributions. Maps in color are a feature of the set.

Details of this special offer with specimen pages indicative of the typographical beauty of the work, the character of the illustrations, etc., etc., will be furnished in handsome booklet form on application to

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HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

C. BETSCHER,
CANAL DOVER, OHIO, U. S. A.

Peonies, 1200 sorts, big stocks.
Iris, various types, 100 sorts.
Gladioli, Cannas, Dahlias, etc.
The finest quality anywhere.
Let us know your wants.
Right prices, stock genuine.

PEACH TREES

60,000 One-Year Trees in assortment of leading varieties for early Spring shipment.

OUR DELAWARE GROWN TREES ARE FINE.

THE DELAWARE NURSERIES, Milford, Del.
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Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

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OFFER FOR SPRING 1907,

a complete line of Fruit, Shade and Ornamental Trees, Shrubs, Herbaceous Plants, Seedlings, Maples, Ash, Catalpa Speciosa, Tulip, Poplar, Mulberry, Oaks, etc., 500,000 Black Locust in all grades. Shrubs, etc., for lining out. Special prices quoted upon application on American Elm, American Linden, Green, and White Ash, Tulip, Poplar, European Sycamore, American Sycamore, European White Ash, and a number of other trees from 6 to 14 feet. Black Locust, Norway Maple, Catalpa Speciosa and other tree seeds.

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Catalogue and prices free on application.
Write direct, I have no agent.

Special Surplus for Spring, 1907

Japan Wild Goose and Robinson Plums, all grades.
Cherry, 1 and 2 year, medium and light grades.
Peach, 1 year, all grades.
Keiffer Pear, 1 and 2 year
Carolina and Volga Poplar 6 to 14 feet.
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Paul Neyron and Magana Charta Roses
also general line of other stock.

Write for Grade Count Bulletin.

VINCENNES NURSERIES,
W. C. REED, Proprietor. VINCENNES, INDIANA.

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No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

"Red Star" Raffia
STILL REDUCED

but up may go the price when this importation is sold. Every nurseryman knows that **"Red Star"** Raffia means guaranteed quality. Send for prices. Sample free.

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Grape Vines and Currant Plants

A SPECIALTY.

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Ask for price list.

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Evergreen and Forest Tree Seedlings

Ornamental Trees, Shrubs, Etc., Etc.

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R. Douglas' Sons,

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Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

BEDDING PLANTS. New varieties of Geraniums; one of our great specialties in this line are Double Petunias for which our strain is well known. Hardy Shrubs, Rhododendrons, Azaleas, Roses, Hardy Climbers.

AQUATIC PLANTS. Water Lilies, Nelumbiums, Victorias, Boz and Aquarium Plants, the most complete assortment of hardy and tender varieties.

All fully described in our Wholesale List issued quarterly, and mailed free to the trade only. If you do not receive this catalogue regularly, please advise us.

HENRY A. DREER,

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SPECIAL SURPLUS.

We have the following stock in our cellars in surplus ready for shipment as ordered and would be pleased to quote prices on your list of wants.

Apple.	Lilac.	Teas Weeping Mulberry.
Pear, Standard.	Norway Spruce.	Killmarnock Willow.
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Plum.	Balsam Fir.	Weeping Mountain Ash.
Peach.	Irish Juniper.	Cutleaf Weeping Birch.
Cherry.	White Spruce.	Black Locust Seedlings.
Grape.	European Larch.	Catalpa Speciosa Seedlings.
Currant.	Douglas Spruce.	Russian Mulberry Seedlings.
Gooseberry.	White Pine.	Import Stock.
Roses.	Maple, Silver.	Apple Seedlings.
Tree Roses.	Maple, Norway.	Pear Seedlings.
Rhododendron.	Maple, Schwedlers.	Mahaleb Seedlings.
Clematis.	Poplar, Volga.	Quince Seedlings.
Althea.	Poplar Carolina.	Rudibecka.
Spirea.	Plane, Oriental.	Pæonia.
Hydrangea.	Linden, European.	German Iris.
Purple Fringe.	Mulberry, Russian.	

We have 10,000 Norway Maple, 5 to 6 feet and 6 to 7 feet, straight stems, just the thing for transplanting, also Silver Maple, 3 to 4 ft., 5 to 6 ft. and 6 to 8 ft.

Catalpa Speciosa, "selected" and Black Locust Seed.

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Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

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101 best sorts

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Hardy Climbers, Noisettes, Ramblers, Etc.

Strong Plants, True Labels, Quick Shipment.

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2½ and 4 inch pots.

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Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

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LOMBARDY POPLARS.
9, 10 and 12 ft. Young Trees; branched low.

CAROLINA POPLARS.
1 in. and 2 in.

CALIFORNIA PRIVET.
Fine. 15 inches to 5 feet. 1 and 2 yrs.

PEACH TREES.

HEMLOCK, SPRUCE.
5 to 7 feet.

JOSIAH A. ROBERTS, MALVERN, PA.

WHITE PINES

4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

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Special Low Rates to Nurserymen.

5000 Standard Pear	10000 Privet, Ibota
5000 Dwarf Pear	1000 Philadelphus, Lempinii
5000 Plum	2000 Spirea, Van Houtti
50000 Peach	1000 Weigelia Rosea
5000 Niagara Grape	1000 " Variegated leaved
10000 Small Fruit Plants	2000 Phlox, white

5000 Deutzia, Pride of Rochester

W. B. COLE, Painesville, O.

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CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
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One-third Interest in the Fonthill (Canada) Nurseries.

Our Mr. Morris wishes to retire through ill health and old age. These Nurseries comprise eight hundred acres and are thoroughly up to date; cellars, packing houses, etc., on grounds. Business a flourishing one and prospects for the future better than ever. Fifteen to twenty thousand dollars cash down, and balance on security for any reasonable length of time. This is a grand chance for a practical nurseryman. Address, for particulars,

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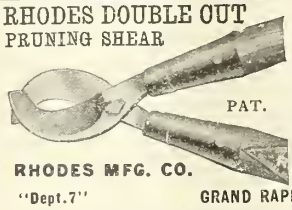

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RHODES MFG. CO.
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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

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Heikes'—Huntsville—Trees

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Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

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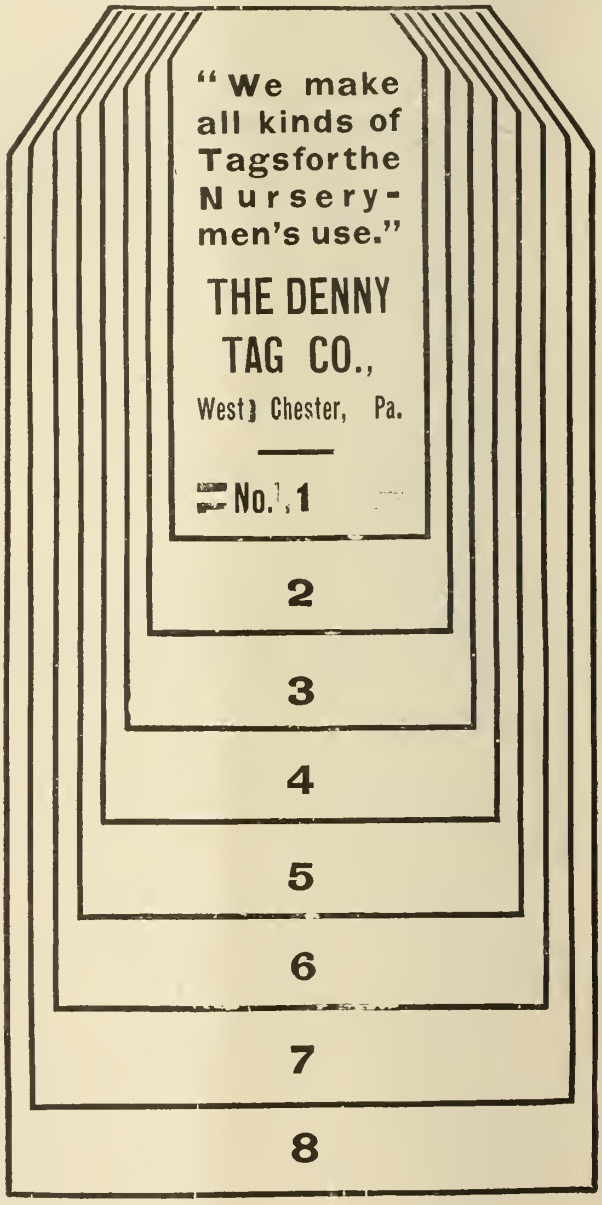

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Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

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Shrubs
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Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose Frau Druschki, mailed **FREE** on request.

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For Nursery Planting.

Well-rooted, thrifty, established *plants* mostly of last summer's propagation.

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MISCELLANEOUS.

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LEMONS, AMERICAN WONDER,
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BIOTA AUREA NANA,
(BERKMANS' GOLDEN ARBOR VITAE.)

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FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. Over 450 Acres in Nurseries.
MENTION THIS AD.

Quercus, continued

broadest above the middle, the lower portion deeply lobed, the upper with large rounded teeth. They are silvery white on the upper surface when very young, eventually dark green and shining, pale or whitened beneath, turning yellow and brown in autumn. Acorn deeply enclosed in the mossy cup.

Q. nigra (*Q. aquatica.*). WATER OAK. A tree with a symmetrical round-topped crown. Occurs naturally from Delaware to Florida, westward to Kentucky and Texas. Leaves dilated upwards, broadest near the apex, the margins mostly entire. They are dull green on the upper surface, pale beneath, falling in late autumn or early winter. Acorn light brown, enclosed only at the base in the shallow cup. Commonly planted as a shade tree in the South.

Q. palustris. PIN OAK. A handsome tree with drooping branches, forming a broad, shapely, pyramidal crown. Distributed from New England to Missouri, southward to Virginia and Arkansas. Leaves deeply 5- to 7-lobed, the divisions toothed toward the apex with bristle-tipped teeth. They are ruddy green at the time of unfolding, dark green and glossy at maturity, fading in autumn with tones of deep and brilliant scarlet. Acorn light brown, enclosed only at the base in the thin cup. Makes one of the most shapely and graceful of trees, the branches sweeping the ground.

Q. pedunculata (*Q. robur*). ENGLISH OAK. A large tree with spreading tortuous branches, forming a broad round-topped head. Native of Europe and Asia. Leaves dilated upwards, with 3 to 7 rounded lobes on each side, dark green above, pale bluish green beneath, fading with tones of yellow and russet-brown. Acorn brown, about one-third enclosed in the cup. A picturesque, hardy tree.

Q. pedunculata concordia. GOLDEN OAK. A form of the above with leaves of a beautiful bright yellow color.

Q. pedunculata fastigiata. PYRAMIDAL ENGLISH OAK. A handsome tree resembling in outline the Lombardy Poplar. Desirable for formal effects.

Q. pedunculata pendula. DAUVESSE'S WEEPING OAK. A form with slender drooping branches. Very graceful.

Q. phellos. WILLOW OAK. A graceful tree with a conical head. Grows naturally from New York to Florida, and westward to Missouri and Texas. Leaves lanceolate, very narrow and resembling a willow leaf, the borders entire, bright green, turning yellow in autumn. Acorn yellow-brown, enclosed only at the base in the thin, small cup. A remarkable and beautiful tree.

Quercus digitata

Quercus palustris

Q. platanoides (*Q. bicolor*). SWAMP WHITE OAK. A stately tree with a narrow round-topped crown. Distributed from Maine to Missouri, southward to Georgia and Arkansas. Leaves oblong-obovate, the margins regularly broken by small blunt lobes. They are bright yellow-green at the time of unfolding, at maturity dark green and lustrous above, silvery white on the lower surface, turning dark crimson in autumn. Acorn bright brown, enclosed about one-third its length in the cup. A beautiful tree.

Q. prinus. CHESTNUT OAK. A tall tree with a broad open crown. Distributed from Maine to Georgia, westward to Kentucky and Tennessee. Leaves oblong or obovate, the borders bluntly and coarsely toothed. They are bronze-green at the time of unfolding, yellow-green at maturity, turning orange or brown in autumn. Acorn chestnut-brown, less than half submerged in the top-shaped cup. A very distinct species.

Q. rubra. RED OAK. A large and handsome tree with a symmetrical round-topped crown. Grows naturally from Nova Scotia to Lake Huron, southward to Georgia and Kansas. Leaves 7- to 9-lobed, the divisions bearing bristle-tipped teeth. They are rosy pink at the time of unfolding, at maturity dark dull green, turning orange and brown

Oak leaves

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9, 10 and 12 ft. Young Trees; branched low.

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1 in. and 2 in.

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Fine. 15 inches to 5 feet. 1 and 2 yrs.

PEACH TREES.

HEMLOCK, SPRUCE.
5 to 7 feet.

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4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

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While we grow Cherry in larger quantities than any other Stock, we also have a very complete line of the following:

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CHERRY TREES from Indiana.

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4,000,000 PEACH TREES

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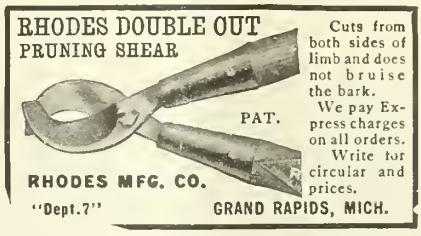
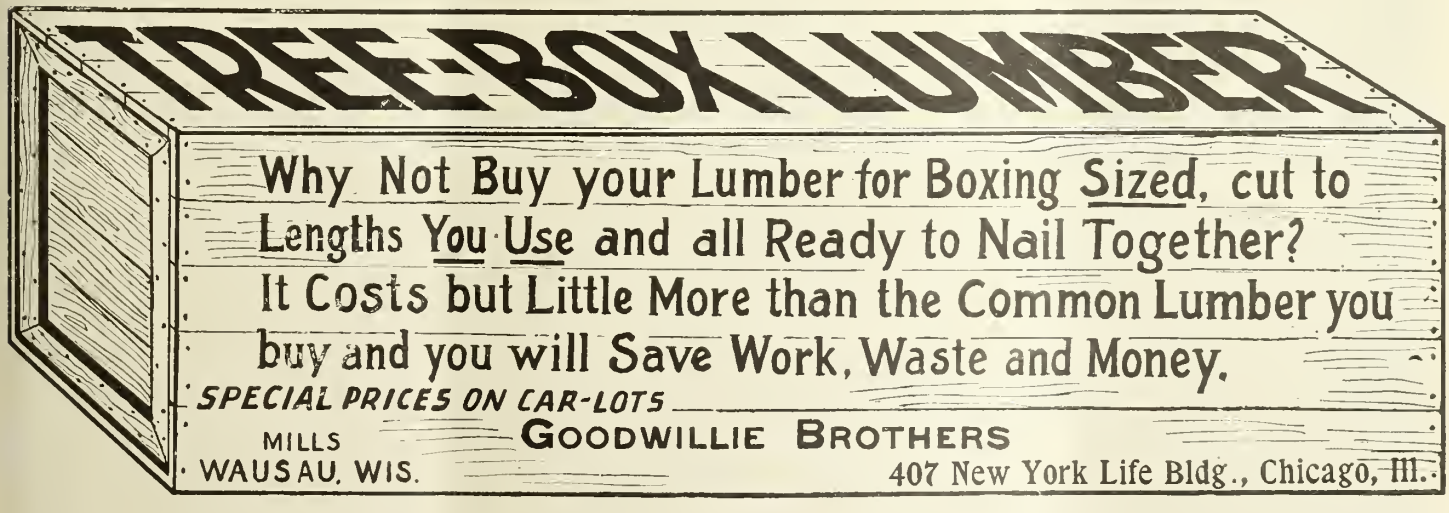
WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.


RHODES DOUBLE CUT
PRUNING SHEAR
PAT.
RHODES MFG. CO.
"Dept.7"
GRAND RAPIDS, MICH.
Cuts from both sides of limb and does not bruise the bark.
We pay Express charges on all orders.
Write for circular and prices.


TREE-BOX LUMBER
Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
SPECIAL PRICES ON CAR-LOTS
MILLS
WAUSAU, WIS.
GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

Mr. Ernest Levavasseur and the Staff,
Orléans Nurseries.

Mr. Norbert Levavasseur and the Staff.
Ussy (France) Nurseries.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XV. ROCHESTER, N. Y., MAY, 1907. No. 5.

LEVAVASSEUR & SONS NURSERIES.

A NOTED FRENCH FIRM, ESTABLISHED AT USSY, FRANCE, MORE THAN ONE HUNDRED YEARS AGO.

THE INTERESTING STORY OF THEIR GROWTH.

[SPECIAL CORRESPONDENCE.]

The origin of the historic nurseries of Levavasseur and Son is most interesting. It was in 1776, the year America achieved her independence, and when Lafayette and Rochambeau were fighting side by side with Washington, that Turgot, the great prime minister of Louis XVI., was forced from his position by a difference of policy with Queen Marie Antoinette. He retired to his castle at Bons-Tassilly, near Ussy, where he owned a large estate. On retirement his aspiration was to establish a beautiful country place with spacious parks; but he found it difficult to secure trees. To secure the supply he procured seed, gathered young plants and began to grow his own stock. Thus it was that the Ussy nurseries were originated.

THE PIONEER DAYS.

The great-grandfather of the members of the present firm was one of the first nurserymen of Ussy. The original idea of growing seedlings was continued and enlarged, but under many difficulties. The country was without railways, means of communication were poor, and the nurseryman was sometimes called upon to transport his seedlings on his own shoulders many miles over rough roads, or no roads at all.

The fame of these nurseries spread, however, owing to the association of M. De Turgot with scientific organizations of Paris. With the building of the Paris-Rouen railway in 1847 the nurseries were directly connected with the business world. Further railway extension occurred in 1856, and later, until at the present time a complete network of railways connect Ussy with the great cities of France and foreign lines of transportation.

Levavasseur & Sons, Orleans Nurseries. Propagating Department—a field of bell jars.

Levavasseur & Sons, Ussy Nurseries. Carting the boxes to station.

ACTUAL FOUNDATION OF PRESENT NURSERIES.

The real growth of this important firm began in 1866, when the father of the present senior member, having learned the business at Versailles, took the management into his own hands. He began to push the seedling and stock business vigorously. His first American catalogue, consisting of a single sheet quoting prices, brought him an order of $240 from a Rochester, N. Y. firm. At this time the headquarters were in a small cottage surrounded by about six acres of land. The Franco-German war did not affect the region, fortunately, and as a result the foreign business grew rapidly during this period. The growing of seedlings became an established specialty. In this line about 120 small growers co-operated. Ground was added, packing houses and offices increased, and growth steadily continued until 1888. At this time Messrs. Norbert and Ernest Levavasseur returned from a tour of England and Germany, where they worked and studied languages as well as horticulture. They were given a share in the business. America has since been visited by both of these gentlemen, who have established wide business connections. The company was incorporated for a ten-year period in 1892, with Mr. Th. Levavasseur as head. At the end of this time the senior member retired. About this time also M. E. Levavasseur bought the old and renowned establishment of Mr. Baron Veillard, at Orleans, and undertook the management. The business was reincorporated, with Norbert Levavasseur as managing director of the establishment at Ussy, and Ernest Levavasseur as managing director of the establishment at Orleans. One of the interesting features is that at each place a staff of men have a share in the business. They feel themselves as much a part of the company as the directors themselves, and this is borne out by their interest in its development. In addition to the members of the staff, over 240 workmen, including foremen, are employed upon the two places.

SPECIALTIES.

Every firm ought to have its specialties, and Levavasseur and Sons lead in several. Among them are:

1. The growing of fruit-tree stocks.
2. The growing of forest-tree seedlings.
3. The propagation of novelties in roses and ornamental shrubs.
4. The growing of a comprehensive line of fruit trees, deciduous and coniferous ornamentals.

EXTENT OF BUSINESS.

Heavy shipments are annually made to Britain, continental Europe, United States, Canada, South America, Australia and South Africa. These shipments amounted last year to over 2,000 large boxes, 11,000 large baskets and 3,000 large bales.

VALUABLE INTRODUCTIONS.

The following useful introductions should be credited to this firm: Genista Andriana; Clematis, Mme. Ed Audré; Rose, Mme. Norbert Levavasseur (Baby Rambler); Rose, Polyantha Mistress Cutbush, and finally, the new Polyantha, Mama Levavasseur, not yet offered to the public. For a full description see Fruit and Plant Notes, June issue. It is claimed that the great value of this new rose is that color does not change like that of the Baby Rambler. It is a pure bright crimson. It is full, without the "white eye" of the Baby Rambler.

This firm has secured a firm place in the confidence of American nurserymen, and we predict a prosperous future.

Levavasseur & Sons, Ussy Nurseries. Packing shed in March.

RESPONSIBILITY OF THE CARRYING COMPANY.

An interesting suit has just been settled by the Supreme Court of North Carolina which involved the responsibility of a railroad company in carrying perishable products. A shipper of South Carolina forwarded a car of melons over the Southern Railway to Philadelphia which arrived in a damaged condition, which was supposed to be due to the culpable negligence of the railway company. The railway company claimed that it was merely acting for the refrigerator company, and from this standpoint were not responsible. On the other hand, the bill of lading made no statement to this effect and the judge in view of this placed the onus on the carrying company, though he stated that if they wished to be freed from the responsibility it would be possible to do so in future by inserting a clause to this effect in the through bill of lading.

National Nurseryman Pub. Co.,

I enclose $1.00 for subscription to National Nurseryman for another year. I find it a very valuable paper and would not like to be without it. T. J. True.

ASSOCIATION MATTERS.

THE ANNUAL MEETING.

PRESIDENT HARRISON'S REMINDER.

BERLIN, MARYLAND, APRIL 15, 1907.

Fellow Nurserymen:

Convention time is near; what have you done during the past year to help the Association? I have a request to make of you. We need to double our membership in order to make the Association of the greatest value. Will you guarantee to secure one new member with paid membership of five dollars ($5.00), and bring him with you? You will not be called on for the guarantee fund. We want and must have the many new firms who have lately started in this delightful work, and it is only by your personal solicitation that we will get them.

A valuable and instructive programme has been prepared by the Programme Committee, and I expect every nurseryman to take a hand in this convention. It's the open-door method; everybody to work for one common interest to make this the best attended and most instructive business meeting that was ever held by the American Nurserymen.

An especial effort is being made to get out a large number of exhibits. Important committees are to report. The Publicity Committee needs your assistance.

We want one thousand people to be present. Bring your wife, daughters and boys.

We want your co-operation, your advice, your presence; and if there is any special point you desire taken up, make it known.

The advantages of our convention are to promote harmony and a relaxation from business at home; a closer personal acquaintance with each other and an exchange of views; an opportunity to learn what is in the market for sale, and the prospective buyers, and to transact business at a very nominal cost. It's the face-to-face and house-to house canvass that wins.

I again ask for your co-operation; with it we are sure of success.

Very truly,
ORLANDO HARRISON,
President American Association of Nurserymen.

CONDENSED CONVENTION INFORMATION.

Time: June 12, 13, 14, 1907.
Place: Detroit, Hotel Cadillac.

THE NURSERYMAN'S DUTY.

1. Send membership fee ($5) for 1907 to Geo. C. Seager, secretary, 403 Chamber of Commerce building, Rochester, N. Y.
2. Place an "Ad" in Badge book, $5 per page.
3. Urge your brother nurserymen to do likewise.
4. Having done this, make plans to attend the convention.

CONVENTION FEATURES.

1. There will be an exhibit of stock implements and nurserymen's supplies (if the poor devils on the outside are not fired) that will be worth seeing. Bring along something yourself. Write Thos. B. Meehan, chairman of exhibits, Dreshertown, Pa.

2. THE PROGRAM: A prominent nurseryman, assisted by other prominent nurserymen, is building the intellectual bill of fare. It's going to be tasty. It's sure to be digestible. Eugene W. Stark, Louisiana, Mo., is chairman.

3. Chas. A. Ilgenfritz, Monroe, Mich., is looking after the Comfort and Amusement Bureau. He promises good rooms, good feed, boat rides, "bubble" rides, and other distractions for "Papa" Josselyn, the young and giddy.

4. Finally, resolve to throw dull care away. Go—and take your wife.

REPORTS OF COMMITTEES.

EXHIBITS.

EDITOR NATIONAL NURSERYMAN:

The committee on exhibits is ready to receive applications for space at the forthcoming convention of the American Association of Nurserymen to be held at Detroit, Mich., June 12th, 13th and 14th next. Application blanks can be secured from the chairman of the committee and any information required can be secured from him.

The committee has decided that no application for space can be considered after the first of June, and all exhibits must be in place at the exhibition hall not later than Tuesday evening, June 11th.

Application for space must be made on blanks to be furnished by the committee.

Exhibits of every character, that will be of interest to nurserymen, are solicited. Trees, shrubs, fruits, implements and machinery and such devices that are, or can be used by nurserymen are especially desired.

The committee is anxious to make this the most complete exhibit ever made at the convention and earnestly requests intending exhibitors to take the matter up with the chairman of the committee as soon as possible so that arrangements can be made in good time.

Members of the Association will confer a favor on the committee by advising it at once of the names of any manufacterers of tools or implements used by nurserymen so that an exhibit can be solicited from them. Very truly yours,

Dreshertown, Pa. THOMAS B. MEEHAN, *Chairman.*

A SUGGESTION.

Why should not our southern growers come in with a fine display of nursery stock? The forwardness of this season will permit of collections of June buds and seedling stock. Again, the pecan business is developing so rapidly that it would seem that now is an opportune time to illustrate the merits of the different types of this stock. Let the advocates of buds and of grafts and the various modifications arrange a display that will mean something in an educational way to northern growers. Pecan growers, here's your chance!

EDITOR.

TO STANDARDIZE GRADES OF NURSERY STOCK.

MR. EDITOR:

I herewith enclose a list of names as a committee to report at our next annual meeting at Detroit, on standard grades of various kinds of nursery stock.

R. G. Chase, of R. G. Chase & Co., Geneva., N. Y., Chairman.
W. F. Heikes, Huntsville Wholesale Nurseries, Huntsville, Ala.
Lewis Chase, of Chase & Co., Rochester, N. Y.
Robert George, of Storrs, Harrison & Co., Painesville, Ohio.
D. S. Lake, of Shenandoah Nurseries, Shenandoah, Iowa.
W. P. Stark, of Stark Brothers Nursery and Orchard Co., Louisiana, Mo.
H. P. Kelsey, Salem, Mass.
Wm. H. Moon, of Wm. H. Moon & Co., Morrisville, Pa.
D. Z. Morris, of Brown Bros. Co., Brown's Nurseries, Ont., Can.

In selecting this committee, I have named both growers and buyers of nursery stock, men who have had several years of experience, as I hope to have a report from this committee at the next convention, giving a list of grades that we all can grade by. It will save disputes and much loss.

ORLANDO HARRISON,
Pres. of American Asso. Nurserymen.

TRANSPORTATION.

PRELIMINARY REPORT OF CHAIRMAN REED.

In reply to yours in regard to what the transportation committee would have to report, would say, at the present time we can not give a full report of the work accomplished the past year for the reason that we have matters up with the different classification committees that are pending and will not have their report of action on same in time for the May issue of your paper.

We will not be able to make as favorable report on the whole as last year owing to the large number of changes secured in that period. There has been less to do, and the duties of Mr. Albertson as special representative have taken a great deal of the work off of the transportation committee.

His report at the close of the year will show what has been accomplished, as the transportation committee has worked in connection with him in all matters along this line.

Since our annual meeting, the Iowa Railroad Commission has adopted the western classification on trees, as per our petition.

We also have a petition for lower classification on locust seed and apple seed. At the present time they take first class while we are asking for third class.

We are pleased to note, by reports from the programme committee, that our programme is to be of a practical kind and to touch on the actual work of growing the different kinds of stock, which we think a move in the right direction. I think a few more practical papers will hold the attendance in the convention hall and discourage meetings in lobbies and ante-rooms.

We hope to have one of the best conventions at Detroit we have ever held. Respectfully,

W. C. REED,
Chairman Transportation Committee.

LATEST BULLETIN FROM EXHIBITS COMMITTEE.

EDITOR THE NATIONAL NURSERYMAN:

At this writing the Exhibition Committee of the Convention of the American Association of Nurserymen has received numerous applications for space, from manufacturers of Sprayers, Tree Diggers and Planters, Box Clamps, Labels, Tags, and other nursery stock, and in fact, almost everything used or grown in nurseries. The indications at this writing are that we shall have a very large exhibition.

The Committee would be very glad if you will make it very plain to your readers, that the Exhibition is open to growers of nursery stock, and that exhibits of such stock is urgently solicited. There seems to be an idea that this exhibition is only for tools and implements. It is not the case, let the nurserymen show some of their stock as well, anything especially fine that they have to offer will be taken care of.

THOMAS B. MEEHAN,
Dreshertown, Pa. *Chairman of the Committee.*

RAILWAY RATES.

Secretary Seager has spent a good deal of energy and time in corresponding with the officers of the various passenger associations of the country in an endeavor to secure reduced rates to Detroit. These efforts have been practically unavailing. The Central Passenger Association reports that the only tickets which are available at reduced rates are party tickets, and these have only a limit of three days including the date of sale. The Michigan Passenger Association has nothing whatever to offer in the way of reduced rates. All persons coming to Detroit should inquire of local agents for special excursion rates which may be in effect by that time.

The Detroit and Cleveland Navigation Company offers a special rate "for a party of ten or more people between Buffalo and Detroit round trip, the party traveling together, of $5.00 per capita for transportation, tickets good for five days." This will give persons from New England and the East an opportunity of enjoying a lake trip, if they so desire.

THE NATIONAL NURSERYMAN PUB. CO. Rochester, N. Y.

We are in receipt of your letter of February 7th. We wish to renew our subscription to THE NATIONAL NURSERYMAN. We certainly appreciate your valuable paper.

Enclosed find draft for $1.00. Yours truly,

G. C. PATTEN & SON.

PROGRAM AMERICAN ASSOCIATION OF NURSERYMEN.

HOTEL CADILLAC, DETROIT, MICHIGAN, JUNE 12, 13, 14, 1907.

JUNE 12TH, 9:30 O'CLOCK A. M.

Calling to Order—
President Orlando Harrison, Maryland.

Welcome to Michigan—
Charles A. Illgenfritz, Michigan.

Response—
Charles T. Smith, Georgia.

Welcome to Detroit—
Mayor Wm. H. Thompson.

Response—
Stanley H. Watson, Texas.

President's Annual Address—
Orlando Harrison, Maryland.

Report of Standing Committees—

Transportation, Uniform Inspection,
Tariff, National Council of Horticulture,
Legislation, Arrangements,
Ways and Means, Publicity,
Editing Report.

Report of Secretary.

Report of Treasurer.

Report of Special Representative—
E. Albertson, Indiana.

Selection of State Vice-Presidents.

JUNE 12TH, 1:30 O'CLOCK P. M.

Preparing Nursery Land—
R. G. Chase, The R. G. Chase, Co., Geneva, N. Y.
C. C. Mayhew, Texas Nursery Co., Sherman, Texas.
John Siebanthaler, Dayton, Ohio.

Cultivating Nursery Stock—
G. N. Hobbs, Albertson & Hobbs, Bridgeport, Indiana.
J. F. Donaldson, The Donaldson Co., Warsaw Kentucky.
Geo. Marshall, Marshall Bros., Arlington, Nebraska.

Growing and Grading Apple Seedlings and Apple Trees—
F. W. Watson, F. W. Watson & Co., Topeka, Kansas.
E. S. Welch, Mt. Arbor Nurseries, Shenandoah, Iowa.
R. J. Bagby, New Haven Nurseries, New Haven, Missouri.

Growing Peach—
J. C. Hale, Tennessee, Wholesale Nurseries, Winchester, Tennessee.
W. T. Hood, W. T. Hood & Co., Richmond, Virginia.
F. D. Green, The L. Green & Son Co., Perry, Ohio.

Meeting of Nurserymen's Mutual Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 12TH, 8:00 O'CLOCK P. M.

Nurseries of the United States. (Illustrated.)—
Prof. John Craig, Cornell University, Ithaca, N. Y.

JUNE 13TH, 9:30 O'CLOCK A. M.

Growing, Grading and Storing Grape vines—
E. H. Pratt, T. S. Hubbard & Co., Fredonia, N. Y.
Eugene Willets, North Collins.

Growing Ornamentals—
W. H. Wyman, Bay State Nurseries, North Arlington, Md.
R. C. Berckmans, B. J. Berckmans Co., Augusta, Georgia.
Geo. C. Perkins, Jackson & Perkins Co., Newark, N. Y.

Growing Cherry—
W. F. Heikes, Huntsville Wholesale Nursery, Huntsville, Ala.
J. W. Gaines, McNary & Gaines, Zenia, Ohio.
Harry D. Simpson, H. N. Simpson & Sons, Vincennes, Ind.

Growing Small Fruits—
W. N. Scarff, New Carlisle, Ohio.
N. E. Chandler, Elmhurst Nursery, Argentine, Kans.
C. A. D. Baldwin, Bridgeman, Mich.

Spraying Nursery Stock—
J. H. Hale, South Glastonbury, Conn.
H. McDonald, Oregon Nursery Co., Salem, Oregon.

JUNE 13TH, 1:30 O'CLOCK P. M.

Storage of Nursery Stock—
D. S. Lake, Shenandoah Nurseries, Shenandoah, Iowa.
J. M. Underwood, Jewell Nursery Co., Lake City, Minn.
H. G. Bryant, Davenport Nurseries, Davenport, Iowa.

How Can Nurserymen Prevent Apple Crown-Gall and Hairy-Root—
Prof. C. G. Hedgecock, U. S. Department Agriculture, St. Louis, Mo.

Marketing Nursery Stock—
Charles E. Greening, Greening Bros. Co., Monroe, Mich.
C. J. Maloy, Ellwanger & Barry, Rochester, N. Y.
Geo. H. Whiting, Whiting Nurseries, Yankton, So. Dakota.

Shall this Association Attempt to Establish Standard Sizes or Grades for Fruit Trees—
J. M. Pitkin, C. W. Stuart & Co., Newark, N. Y.
E. P. Bernardin, Parsons Wholesale Nurseries, Parsons, Kansas.
Abner Hoopes, Hoopes Bros. & Thomas, Westchester, Pa.

Meeting of American Nurserymen's Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 14TH, 9 O'CLOCK P. M.

Managing Salesmen—
J. W. Hill, Des Moines Nursery, Des Moines, Iowa.
C. R. Burr, Oakland Nurseries, Manchester, Conn.

Need of Co-operation Among Nurserymen—
J. H. Dayton, Storrs & Harrison Co., Painesville, Ohio.
H. S. Bird, West Michigan Nursery, Benton Harbor, Mich.

Shall we Change the Date of Annual Meeting?—
Wm. Pitkin, Chase Bros. Co., Rochester, N. Y.
Peter Youngers, Youngers & Co., Geneva, Nebraska.

Report of Committee on Exhibits.

Report of Committee on Resolutions.

Election of Officers.

Selection of next place of meeting.

EDITORIAL WANDERINGS.

CONDITIONS IN GEORGIA AND NORTH FLORIDA.

AN ERA OF RAPID GROWTH AND VIGOROUS INDUSTRIAL DEVELOPMENT—PECAN NURSERIES.

Each time we visit the South we are more impressed with the great agricultural possibilities of the region. In making a living from the soil, a man's opportunities are wonderfully enlarged when he can work the land ten or eleven months instead of seven or eight out of the twelve. As the northerner views it, the average southern farmer does not make the most of his environment—but then the visitor always knows more than the resident. Time is coming, however, when every advantage will be worked to its fullest extent.

A recent trip through the Carolinas, Georgia and north Florida just at the disagreeable "between winter and spring period" in the North revealed what seemed to us undoubted evidence of great agricultural activity. The high price of cotton, the successful introduction of diversified farming, the development of the dairy interests, of the truck interests, and the exploitation of the wealth of the forests, as lumber, ties and turpentine, all have their influence upon farming and industrial activity.

One can see from the train, in South Carolina and north Georgia, little clearings in the pine woods, newly made, old fields reclaimed, swamps drained, peach orchard recently planted, in addition to a much enlarged peach area in south Georgia and north Florida. The peach, the pecan and the tobacco plant are attracting the attention of men who invest in rural enterprises.

THE PEACH.

South of Fort Valley and in the Albany district, large peach projects are occupying the attention of the promoters of this fruit. The industry has been severely hit again this year. On the 14th and 15th of April, following an unseasonably warm March, a period of cold, windy weather culminating in a drop of temperature several degrees below freezing occurred. But for the movement of air the damage would have been greater. As it was, the crop is reported to have been wiped out on the lower levels, even to the south boundary; much injured on the middle elevations, and considerably reduced on the hills.

Miller & Son of Rome, Ga., inform me that their orchards, where situated on exposed elevations north of Rome and with northern aspects, have escaped, while others situated lower and with southern or western exposures are severely cut. This again demonstrates the wisdom of the advice which says, plant on airy, elevated sites and choose a northern aspect. The reports from Fort Valley say from ten to fifteen per cent. of the set is left. In the case of the Elberta this may mean a fair crop. What with rot the last two years, high price of packages, and the transportation difficulties it is safe to prophesy that the peach-planting fever will cool down for a few years. Perhaps this would be a good time to set your trees!

THE PECAN.

Another fruit industry attracting attention in south Georgia and north Florida is the growing of pecan stock and the planting of pecan orchards. This is quite a different type of enterprise from the growing of peaches. A pecan orchard is not a temporary investment. As an investment it does not yield a dividend as quickly as the peach, but it continues productive for generations instead of for a decade. It comes into bearing in five or six years, and, so far as we know, should be in its prime at fifty or sixty years. Unlike the peach, a host of enemies are not waiting to wipe out the crop when it does materialize. Enemies may arise, but they are not apparent at the present time. Meanwhile, pecan planting is progressing at a lively pace, and nurserymen who are fortunate enough to have "the hang" of the propagating trick are making good money.

Is the market likely to be overloaded? This is a remote possibility. There is no reason why this fine nut should not compete successfully with almonds and walnuts in the British and European markets. A little exploitation will triple the consumption of the home markets without depressing the prices a particle. In our opinion, the pecan will be to the middle south what the apple is to the northeast—a sure money-earner and a safe investment.

TOBACCO.

Many of us are unaware of the great strides being made in the production of Sumatra wrapper tobacco in north Florida. We have heard more or less of the growing of pineapples and tobacco under shade, but when one sees a field of ten or more acres enclosed with boarded walls two or twelve feet high, and covered with a woven roof of pine slats, he begins to realize that "business is doing" in this line. The man who contracts to grow an acre of tobacco in this manner must make up his mind to invest about a thousand dollars in the enterprise. But then, if it pays? And it seems to be profitable. A single tobacco company has contracted one hundred and seventy-five acres of sumatra leaf to be grown in this way the coming year. This is all grown for wrapper purposes. It is not a question of flavor, it is merely one of perfection and texture of leaf; these the shade ensure.

AMONG THE GROWERS OF NURSERY STOCK.

It was our pleasure to call upon some of the representative nurserymen of the region, and the number visited was only restricted by limited time.

The hospitality of the southerner is proverbial. He entertains heartily and without ostentation. His fireside comforts are unreservedly yours.

One of our first visits was with the G. M. Bacon Pecan Co., of DeWitt. In Mr. G. M. Bacon, president, we found a pleasant gentleman of the courtly and older southern school. Mr. Bacon may be said to be the father of the pecan industry of this now famous region. His plantings are among the oldest, and the company's the most extensive in south Georgia. This company grows stock

in large quantity and is also planting large orchards. They demonstrated in this way their faith in the future of the pecan industry. Associated with Mr. Bacon is Mr. Herbert C. White, vice-president and office and field superintendent, as well as expert in propagating the pecan. Mr. White is also officially connected with the DeWitt Pecan Co. and the South Georgia Pecan Co., both of which orcharding enterprises are located in the immediate neighborhood.

AT MONTICELLO, FLORIDA.

Here, again, pecan propagation has become somewhat of a specialized industry, and we were efficiently piloted about by the Messrs. Simpson, senior and junior, of the Nut Nursery recently purchased of Mr. Jones by these gentlemen, who have already achieved a reputation in the growing of fine cherry stock at Vincennes, Indiana. This pecan nursery is managed by Raymond C. Simpson, Cornell '04, who, after serving a year's apprenticeship under Mr. Jones, succeeded him in the business. We saw a fine stand of grafts of the leading varieties of pecans, and if nothing interferes, the nut nursery should handle close on to a hundred thousand the coming season.

Among other similar enterprises in the vicinity of Monticello are those of Miller & Gossard, both former officers of the Florida Experiment Station, who are pushing the pecan in addition to carrying a general nursery stock. Here, also, is located the nursery of Mr. Girardeau and that of the Standard Pecan Co., managed by Mr. Watson, of Monticello. The soil and climate in this section seem admirably adapted, and there is undoubtedly a large future for the industry.

AMONG THE ORANGES.

Practically on the same parallel of latitude, but about 100 miles nearer the coast and considerably less elevated, is the little village of Glen Saint Mary, and here are located the noted nurseries of this name, founded and managed till the present time by Mr. Geo. L. Taber.

Remarkable it is, that after the freezes and rumors of freezes which practically wiped out, years ago, the citrus industry to the center of Florida, and which have constantly pressed the successful limit of orange culture farther to the south, we should find here a veritable orange oasis. Mr. Taber has not only made a success of growing nursery stock, but he has shown how oranges may be grown on a commercial scale and with commercial success in the north tier of counties in Florida. How has he done it? By studying carefully the requirements of the tree, the best types of stock and the hardiest varieties of the orange. He uses the trifoliate stock and the satsuma variety largely in his orcharding operations. The pomelo is also grown successfully, and one of the specially attractive features at the time of our visit was the large numbers of tub plants of the interesting little Kumquat about the place. This fruit is one of the specialties of the Glen Saint Mary nurseries.

The firm is now undergoing a reorganization. The interests have been pooled, and the company is being incorporated, with Mr. G. L. Taber as president and treasurer, Mr. H. Harold Hume as secretary and manager. Mr. Hume comes from the field of experiment station and college work in North Carolina and Florida, bringing with him a large amount of enthusiasm and a great store of technical and scientific knowledge. This combination of Taber and Hume should mean great things for the nursery business in the South.

IN NORTH GEORGIA.

It was our pleasure a day later to call on a firm of noted nurserymen and orchardists in north central Georgia. Near the picturesque town of Rome—which might have imitated its ancient namesake by settling on the adjacent hills, but established itself in the valley instead—is located the firm of G. H. Miller & Son. The Millers are Ohioans hailing from the nursery region of Zanesville. The senior member established the business here about twenty-five years ago, and assisted by his son, it has grown steadily and has constantly widened its scope. The stock—apple, pear, plum, peach and ornamentals—is grown on the best soil available in the vicinity. The nursery business goes hand in hand with extensive peach-orcharding enterprises, conducted on the favorable elevations within manageable distance. These orchards attest the good judgment displayed in selecting the location by promising at this time a handsome crop of fruit, where others much farther south and supposedly more favorably located have been swept bare by low temperatures. Georgia peaches will bring good prices this year, or we are very much mistaken, and the Millers will be "in it."

Twenty-four hours travelling northward at twenty-eight miles an hour brings you to Washington and out of the zone of the flowering dogwood and Judas tree. On April 20th we are indeed reminded of our locality by a nip of frost near Washington and reports of a freeze westward.

A NEW DWARF ROSE.

Levavasseur & Sons, Ussy, France, have secured a gold medal from the Society of Horticulture of Orleans and Loiret as a recognition of the merit and value of their new rose, Maman Levavasseur. This is a pink baby rambler. Plants are being now offered for sale.

THE EDITOR'S SONG.

How dear to my heart is the steady subscriber, who pays in advance without skipping a year; who takes out his dollar and offers it gladly, and casts around the office a halo of cheer. Who never says "stop it, I can not afford it" or "getting more papers each day than I read," but always says "send it, the whole outfit likes it—in fact we regard it as a business need." How welcome he is when he steps in the sanctum; how he makes our eyes dance; how he makes our heart throb: we outwardly thank him—we inwardly bless him—the steady subscriber who pays in advance.—Ex.

The National Nurseryman Co.,
Rochester, N. Y.

Just finished a busy season—sold everything. Elberta Peach, Johnathan and Wine Sap apple in the lead.

We do not want to do without the paper. Find $1.00 enclosed.

B. H. Bower.

The National Nurseryman

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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ROCHESTER, N. Y., MAY, 1907.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Orlando Harrison, Berlin, Md. ; vice-president, J. W. Hill, Des Moines, Ia. ; secretary, Geo. C. Seager, Rochester, N. Y., treasurer, C. L. Yates, Rochester, N. Y.

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Inspection—R. C. Berckmans, Peter Youngers, Prof. John Craig.
Program—Judge Eugene Stark, Louisiana, Mo.; Chas. J. Brown, Rochester, N. Y.; Herbert S. Chase, Huntsville, Ala.
Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derry, N. H.; H. D. Simpson, Vincennes, Ind.
Exhibits—Thos. Meehan, Dreshertown, Pa.; H. P. Kelsey, Salem, Mass ; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.
Horticulture—Chas. J. Maloy, Rochester, N. Y.; Chas. T. Smith, Concord, Ga.
Arrangements—Chas. A. Ilgenfritz, Monroe, Mich.; Chas. Greening, Monroe, Mich.; Geo. S. Josselyn, Fredonia, N. Y.; Nelson Bogue, Batavia, N. Y.; John B. Morey, Dansville, N. Y.
Editing Report—J. Horace McFarland, Harrisburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.: secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN — President, A. Willis, Ottawa, Kansas; vice-president, George Marshall, Arlington, Neb.; secretary, E. J. Holman, Leavenworth, Kansas.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, John A Young, Greensboro, N. C.; vice president, C. N. Griffing, Jacksonville, Fla.; secretary-treasurer, Chas. T. Smith, Concord, Ga. The next meeting will be held in Richmond, Va. August, 1907.

OKLAHOMA ASSOCIATION OF NURSERYMEN—President, J. A. Lopeman; vice-president, J. P. Taylor; secretary and treasurer, C. E. Garee.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

UNIFORM GRADES OF NURSERY STOCK.

While this subject has been agitated for a number of years, nothing definite has appeared as a result. We believe that President Harrison has made a wise move in appointing the committee noted on another page to take charge of this important matter. In certain departments of nursery stock there is a deplorable amount of confusion. Take, for instance, budded or grafted ornamentals and nut trees; one man has one standard, another a totally different one. The result is confusion to purchaser as well as other nurserymen. Let us have an official standard, at any rate, so that in cases of dispute we shall have some authority to hark back to.

AMERICAN POMOLOGICAL SOCIETY.

The thirty-first biennial meeting of this national organization of fruit growers and scientists will be held in Jamestown, September 25, 26, 27, 1907. The meeting is held there in response to earnest invitations tendered by the fruit-growing societies of the region, and the management of the Jamestown Exposition. The Virginias, Maryland, Delaware and the Carolinas have warmly seconded the invitation of the exposition authorities, and as it has been a long stretch since the Society met in the region, the executive committee decided that this year was an opportune time to go. The whole region clusters with pomological associations, and apart from the historical interests of the tide-water section, the display of fruits itself will attract many visitors. It is also expected that a large number of eminent European pomological workers will attend. On the whole, the meeting promises to be a great pomological convention. The executive of the Society is making an early announcement so that those who expect to attend the exposition may be able to plan their affairs to be there at the time of the convention.

SPRING FREEZES.

The usual grist of despatches from more or less authentic and responsible sources appeared during the early days of April, chronicling injury to fruits and vegetables varying in degree from a slight touch to total destruction. It is difficult to get at the real facts, but it appears from a study of conditions that the frost of the first week of April cut down very materially the prospective peach crop from Delaware to central Georgia. The buds were sufficiently developed in Delaware, Maryland and Missouri to be susceptible to serious injury. In Georgia the fruit had formed and the injury was severe. We are of the opinion, however, that the freezes have not been so destructive as reports would lead us to believe. Strawberries in the Carolinas, Alabama, Louisiana, and Arkansas, and some truck crops in the same regions and in Florida, were injured by the same frost. In some cases these freezes mean a retarding of the annual harvest, as in the case of strawberries; in other instances, an entire destruction, because a second crop cannot be brought into the market in time to be profitable. The great diversity of fruit

regions now prevents anything like a shortage of fruit product due to unseasonable weather. Most freezes are sectional in area; it is only the continental occurrence which is greatly to be feared. The apple, as well as the peach crop, has been greatly reduced in the middle west.

THE BEST TYPE OF NURSERY TREE.

A question something like this often comes to us from the would-be purchaser: "Shall I buy the largest grade offered at the highest price demanded, or shall I buy the smaller grades, and thus save a good deal of money on the initial expenditure? The question resolves itself into, What is the best tree? Is it the tree that has made a maximum growth, that has vegetated vigorously, we will say? It has gotten a good start, has been well fed, and has outstripped its comrades. On the other hand, is it the tree which, by reason of unfavorable competition, has been suppressed, held back, been made to live in adversity, and perhaps in that way has been hardened and toughened and rendered fit to meet difficulties and troubles in life? Is there a medium between these two, a medium in which we find a moderately developed tree, one in which the wood-making tendency is not over-emphasized, and on which fruit buds are likely to develop earlier than on the tree which runs largely to wood during its earlier years? We should like to have an expression of opinion on this interesting subject from members of the Association who have followed the behavior of the lusty overgrown tree as well as the medium tree and the stunted tree, from nursery to orchard.

MAKE PLANS FOR ANNUAL MEETING.

The annual round-up of the nurserymen of the United States and Canada is only a little more than a month distant. Most nurserymen have completed the spring shipping campaign; order has followed the necessary rush of the shipping season, and a breathing spell is in sight. From advices received, the season has been in all respects most satisfactory. Apart from seasonal difficulties with frosts, freshets and transportation troubles, the nurseryman's harvest has been fairly satisfactory.

Now then, we should make arrangements to cut loose from business cares, and attend the annual love feast. Do not attempt to measure the benefits of the visit in dollars and cents. There is no question that the visitor will get enough out of the change of thought and work to fully repay him for the time and expense in attending. The visitor should reap enough benefit from the program itself to more than fully compensate, and if he fails in this, he will certainly gather enough inspiration by contact with brother nurserymen and the feeling of good fellowship growing out of fraternal intercourse. The nurseryman may look around and see many odds and ends that call for his personal attention. These may seem to him more important than the meeting. In the long run, they are not. Shape your plans to attend the meeting, and make arrangements now.

ASSIST THE PROGRAM.

No one who has not been a member of the program committee has any conception of the difficulty of building up a bill of fare for the annual convention of the nurserymen. It looks simple and easy when completed, but we have reason to know that the work of the program committee is the most trying and onerous of any committee in the Association. Now, there is no question at all but that each man in the Association has had some item of experience during the year which is valuable to all, though peculiarly his own. It is valuable to him, and it ought to be valuable to others. His own use in the world, his own power, is increased largely in proportion as he gives of his experience to his brother members. This will help them as much as the incident has helped him. Let these experiences be passed along the line. There are some nurserymen who are deterred by excessive diffidence, and often these men are the very ones who can contribute real, live information of practical value.

There is another type of individual, however, who is loth to contribute either to the instruction or the entertainment part of the program, but prefers to sit back and criticise. The American Association of Nurserymen is singularly fortunate in having very few of this kind. It is fortunate, because the world is long on critics and short on unselfish workers. The carping spirit is of little service in convention work. The quality does not increase the happiness of the owner, and is of no special service to his fellow man. Let us all help the program committee. Chairman Stark and his associates have worked hard in their efforts to secure a list of speakers and subjects which will instruct and inspire. Let those who have questions they would like answered send them in to the program committee, so that these may be added to the printed program and may be assigned to those who are competent to answer. The NATIONAL NURSERYMAN has published a number of questions, all of which are of direct or indirect interest to the nursery business of this country. Finally, let every man work for an increased membership in the Association and the greatest convention the nurserymen have yet held.

In *The Youth's Companion* are several good stories as varied in subject as any one could wish. There is an installment of Adeline Knapp's story of "The 'Surplus' Sheep," now nearing its close; a capital story of gold-seeking adventure, entitled "A Peck of Gold Dollars," by C. A. Stephens; a story of basket-ball doings at a girls' school, by Grace M. Gallaher; and a stirring tale of an encounter with Chinese pirates, by Laurence J. Yates. H. S. Canfield's account of the race between the Robert E. Lee and the Natchez, from New Orleans to St. Louis in the summer of 1870, is as good as a story, and there is a special contribution on "What Causes a Hot Wave," by United States Weather Observer, J. H. Spencer.

THE NATIONAL NURSERYMAN.
Rochester, N. Y.

Please find enclosed $1.00 in payment for renewal. Cannot afford to be without this valuable paper. We look with pleasure every month for the arrival of each issue. Please see that we do not miss a single copy.

VALDESIAN NURSERIES,
Bostic Department.

Correspondence.

OREGON HUSTLING.

EDITOR NATIONAL NURSERYMAN:

April 1st saw the large bulk of our shipments away from our packing grounds. Our shipping season has been one continuous rush since last October, so we are glad at last to get a breathing spell. It is a little too early to give an accurate estimate of collections on spring deliveries. So far, shipments made have collected fully up to the average of the past few years, and we look for no trouble in making the average of collections this spring.

Nursery stock generally on the Pacific Coast has been sold out very closely, and in very few lines are there surpluses to carry over into another year. Shortages in stock have been noticeable for some time, and in many of the leading varieties there were not enough trees to fill the demand.

The past winter has been quite favorable for outdoor work in our section of the country until the past few weeks. The rainfall has been rather under the average, but it is making up for it now, and no doubt we will come up to the first of June with our usual average of rain.

The wet weather, of course, is retarding work in the fields, but all nursery operations were well in hand before our present wet season set in, so that nursery operations generally are not suffering.

The outlook for future business on the Pacific Coast is about the same as during the past year or two, and all nurserymen look for a good demand during the coming year.

M. McDONALD.

Salem, Ore.

FRUIT CONDITIONS IN TEXAS—BADGE BOOK WANTED EARLY.

EDITOR NATIONAL NURSERYMAN:

An unusually warm winter has deranged many fruit trees in Texas. In many peach-growing districts fruit will be scarce and trees will suffer.

Nursery stock is doing well. The loss of labor supply is severely felt. Too much prosperity enables everybody to retire. The workers have been converted into players. Games and playhouses are reaping a rich harvest.

Please tell us what we can do in order to secure Badge Book before our meeting. For many years we have not had this convenience. [Write Secy. Seager.—Ed.]

E. W. KIRKPATRICK.

McKinney, Tex.

THE NATIONAL NURSERYMAN,
Rochester, N. Y.

Gentlemen:—Our Mr. Joseph Rölker left April 4th on his spring trip to Europe to look after sundry interests—among them to secure a French nursery firm to look after the filling of our many orders for ornamentals and fruit stocks for the season of 1907-8, since Elmire Sebire has retired from the business.

New York. AUGUST RÖLKER & SONS.

SUGGESTIONS TO NEW YORK NURSERYMEN BY THE STATE INSPECTOR, GEO. G. ATWOOD, ALBANY.

Gentlemen:—You know that I have been for many years somewhat familiar with nursery business in this country, and that for the last nine years I have been an inspector under the New York State Department of Agriculture, and have had an exceptional opportunity to become familiar with conditions relative to San José scale.

The State of New York is the leading State of the Union in the number and acreage of its nurseries, in the amount of shipments both out of and into the State; in extent and product of its pomaceous orchards and small fruits. The State is divided into eleven divisions, under the care of an inspector throughout the entire year. Each inspector reports to the Albany office in detail of his inspections of the nurseries, orchards, shipments and small city or village lots in his territory.

Every State in the Union sends to the Department all that is printed on scale. With all this accumulated data, I believe there is no single desk in the world that handles so much matter on this subject as my desk in Albany. It is, however, my business, not to write for the papers, but to suppress scale; yet I want a few words with our nurserymen on subjects that I am admittedly qualified to speak.

In selecting a site for planting, see to it that no orchard or other trees liable to infestation by scale are near young blocks.

Fumigate all stocks, buds and scions with hydrocyanic acid gas of known formulas.

Avoid transplanted or "hospital" stock.

Observe that there are no authentic cases on record where ripe, dry nursery stock has ever been injured by fumigating for one hour, using one ounce of pure cyanide of potassium. Such fumigation will kill every scale on clean (not muddy) trees, if the enclosure is tight and if the gas is properly diffused.

The New York Agricultural Law can deal only with stock found infested with live scale.

The question of what shall be done with nursery trees that show markings of scale, if the trees have been fumigated and all scales found are dead, is one to be settled between buyer and seller. My impression is that such trees are unmerchantable, because live scales might possibly be present.

A MARYLAND NOTE.

We have had a busy season and still shipping. Colder now than it was in March. We have used one hundred and sixty-eight cars for moving trees from March 1st, up to date and orders are now coming in daily. The great difficulty is, it takes more to run a business than ever. It takes better trees to satisfy the customers. We must unite on some plan to advance the price to cover the increase.

Berlin, Md. J. G. HARRISON & SONS.

NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Find enclosed $1.00 to satisfy enclosed bill, and pay for the NATIONAL NURSERYMAN for one year, as we do not want to do without it, and do not want you to fail to continue sending it.

CHAS. ERNST NURSERIES.

REPORTS FROM VICE-PRESIDENTS.

NEW JERSEY.

I believe New Jersey will be well represented at the convention, as I am working to have everybody go. I do not believe the nurserymen have ever had a better season than this one, so I should think we ought to have the biggest crowd we have ever had.

Elizabeth. E. RUNYAN.

MASSACHUSETTS IS AWAKE—SOME HEART TO HEART SUGGESTIONS.

EDITOR NATIONAL NURSERYMAN:

This year the trade has plainly indicated that there is a growing demand for good specimen stock which is not to be had anywhere in any adequate quantity, and those nurseries that have the nerve to go in and plant largely for the future must eventually reap the benefits. The present conditions of state inspection as against a national law is sadly in need of agitation, and another subject that might be taken up profitably is the local rate question. I find that short hauls are so expensive in car lots or less than car lots as to be almost prohibitive in some cases.

It seems to me further, that some lines have been more successfully pushed in the National Organization than others, and this is totally due to the amount of labor put in by certain generous-minded members, who have been left to do this work practically alone and without the co-operation and help of other members who derive equal benefits from the results. One nurseryman's time is worth just about as much as another's, at least to himself, and why a few should be expected to carry on the work for the entire organization has always been a mystery to me.

If we have the right kind of annual meetings, I know of nothing that will broaden us so much as attending such meetings. The Association is no place for airing personal grievances and partisan scrappers should be given a ring outside. I hope we shall have a good attendance from the Bay State.

Salem, Mass. HARLAN P. KELSEY.

THE NUTMEG STATE.

To change the needy knife-grinder's reply in Canning's poem a little, "Report! God bless you, I've none to make sir." If there was anything to say it would be something like this; that the nursery business cuts a smaller figure in New Hampshire's many and varied industries than fruit growing. We have no little credit however, as a fruit growing state which requires renewing and influence wealth and this growth of horticultural taste which in turn creates a demand for ornamentals.

From what I have been able to learn, the season's business is up to the usual average, but the backwardness of spring has prevented much visible manisfestation of trade results. On account of the comparative smallness of our home nurseries and their distance from the meeting places of the Association, the writer has for some years been the sole representative of the state in the conventions.

Derry, N. H. JOHN C. CHASE.

PENNSYLVANIA—VICE-PRESIDENT MC FARLAND.

The Pennsylvania nurserymen have had a prosperous season and they ought to be ready for the forthcoming meeting of the American Nurserymen's Association. There are questions to be discussed of great importance. That old spectre of selling below cost is still visible, and I know of some nurserymen who are anxious to operate a system which will tell them what their trees and plants cost, so that they can sell at a profit.

Nothing but good comes from meeting together, even when there is only the social intercourse, and when the latter is mingled with suitable business considerations and interchange of opinion, the result is all the more profitable.

I hope a large delegation from Pennsylvania will be present.

Harrisburg. J. HORACE MCFARLAND.

ATTENTION! INDIANA NURSERYMEN!

I want to urge each and every one of you not only to join the American Association of Nurserymen, but to attend the next meeting which is to be held in Detroit, June 12, 13 and 14th. Those of you who have never attended a meeting of this Association fail to realize how much of the good things of life you miss each year. It enables you to meet and become acquainted with nurserymen from all over the United States with the least expenditure of time and money. Indiana is so near Detroit that every one of us should attend this year. Make your plans to that end and send immediately your $5.00 for membership dues to George C. Seager, Rochester, N. Y. This not only entitles you to the proceedings of the meeting, but you also get a badge book containing the accurate address of each member. This book contained about 600 names last year. You are also enjoying the reduced freight rates which were granted through the efforts of the Association and we should all help the good work along by becoming members. Indiana should be represented this year by not less than fifty nurserymen. Won't YOU be one of the fifty? Let us all look ahead and plan to go, no matter what may come up at the last minute. I shall be glad to have any inquiries and will assist with all the information at my command.

H. D. SIMPSON,

Vincennes. *Vice-President for Indiana.*

KANSAS PROMISES A LARGE TURN OUT.

EDITOR NATIONAL NURSERYMAN:

Everything in this state points to a very large attendance at our next annual meeting. We had a very mild winter, stock has done well, sales were good and from all reports the Kansas nurserymen are in a prosperous condition and they cannot any of them afford to miss our conventions. If one would be prosperous he must be up to date and he can only do so in the nursery business by visiting his brother nurserymen, the exchange of ideas and the putting his shoulder to the wheel and helping to push the good things along that we are doing in the American Association every day is the work of us all. No live man can afford not to be a member of the Association, even if he cannot see his way clear to attend the meetings. About the middle of May, after every one has cleaned up his spring business and feels good over his past year's profits, I shall write a number of personal letters urging membership and attendance at the next meeting. There seems to be more interest taken in the coming meeting than we have had for years and I look for the largest attendance ever recorded in the history of our Association.

E. P. BERNARDIN.

Parsons, Kas. *Vice-President for Kansas.*

DELAWARE AND APPLE GROWING.

EDITOR NATIONAL NURSERYMAN:

Allow me to speak a word for "Apple Growing" in Delaware: I think it has been proven conclusively by some few of our most progressive fruit growers, that with proper culture and spraying, our Delaware soil can, (and does,) produce as fine apples as are grown anywhere in the United States. The great majority of us Delawareans are not aware of the possibilities right here in our own State, in this particular line.

D. S. COLLINS,

Milford, Del. *Vice-President for Delaware.*

ALABAMA NURSERYMEN HAPPY.

EDITOR NATIONAL NURSERYMAN:

Yes, sir; all nurserymen in this section have had a good year's business. Practically everything has been sold and collections of 100% are expected. As far as I can learn, all nursery firms in this section will be represented at the forthcoming convention. Recently I have called on nurserymen in the West; they all feel happy. The Detroit meeting promises to be one of the best the Association has known.

Yours very truly,

HERBERT CHASE,

Huntsville. *Vice-President for Alabama.*

FLORIDA SUGGESTIONS FOR A BUSINESS CONVENTION.

EDITOR NATIONAL NURSERYMAN:

I am pleased to learn that President Harrison and others are hard at work for the Association. This certainly argues well for an unusually interesting meeting.

Transportation—I now think it somewhat doubtful about my getting to the meeting, but I hope that the Association will take up vigor-

ously several matters of immense importance to nurserymen the country over. For instance, transportation, both rates and quicker movement of nursery products. In Florida at least freight rates are in a rather bad condition on account of recent national legislation, and delays are nearly always to be expected. In fact a straight haul of not more than thirty miles sometimes means a week or ten days; longer distances in proportion.

Express rates are even more uncertain, and delays not uncommon, and, in this connection, I would like to suggest that the transportation committee insists that express companies furnish shippers with regular tariffs the same as freight companies. To my certain knowledge they do this with some nurserymen and refuse it with others. It seems rather a discriminating way of doing business.

Legislation—Still another matter I would like the Association to consider, and that relates to the awful amount of red tape connected with shipping to Cuba. No one seems to know what the Cuban Government requires in the way of manifests, inspection certificates, consular certificates, etc. One Cuban official will tell you one thing and another still another way, and the consul probably will refuse to handle shipments made up in either way. If some definite understanding could be arrived at, even though stringent, nurserymen shipping to the Island would know what was required and be able to conform to regulations.

With best regards, and hoping that the meeting will be able to accomplish a lot of improvement in conditions, and at the same time have a very pleasant time, I remain,

Macclenny, Fla. AUBREY FRINK.

TENNESSE—OVER PRODUCTION.

EDITOR NATIONAL NURSERYMAN:

In our section of the South, for the year 1906, we had an over production of both apple and peach stock; and much stock was left over for spring sales. This caused sharp competition among nurserymen, and in many instances, an unparalleled cut in prices. In some instances wholesale nurserymen engaged in this competition with the retail men, and sold to the usual customers of the retail nurserymen, at even very low wholesale prices, making it impossible for retail men to compete in prices, and secure any profits.

Although spring sales have been fairly good, in so far as we have heard, and collections are coming up to about their usual standards, yet on account of the low prices at which retail men have been compelled to sell their stock, profits are wanting. It is hoped that production of apple and peaches will decrease, and the demand increase until production and demand meet. Not until then, will there be much profit in the business, in this section.

Clinton, Tenn. S. P. FOWLER.

CALIFORNIA.

EDITOR NATIONAL NURSERYMAN:

Your valued favor of the 29th ult. is received and in reply to same we beg to state that the condition of the nursery business has as a whole been very satisfactory to all nurserymen in California as far as we have been able to judge. The demand for trees has been unusually heavy, particularly for peaches; all standard varieties are well cleaned up.

Our sales have been considerably heavier than they were last year and would have been even larger than they were had the weather conditions not been so unfavorable in many sections of the state, making it impossible on account of the extreme wet weather for many who contemplated planting to order any trees at all. Although the excessive rains have caused more or less inconvenience in many sections of the state on the heavier lands, as is usually the case however, in California these bountiful rains will be of more benefit than detriment.

It looks very much as if the fruit crop this year will be much heavier than it was last season, unless we should have some very severe frost between now and the 15th of April, which would freeze the small fruit now about the size of peas. It is not very likely, however, that at this late date, we will have frosts severe enough to do the fruit any damage.

Shipments of all classes of nursery stock is practically over with now, except for citrus trees and olives and their sale will probably last up till the middle of May and in some cases even later than this.

FANCHER CREEK NURSERIES,

Fresno, Cal. Geo. C. Roeding.

SOUTH DAKOTA.

EDITOR NATIONAL NURSERYMAN:

I expect to be at the meeting at Detroit myself, but hardly think there will be anyone else from this state, as none of the nurserymen in the state seem to think they can afford to attend.

We are having a very good spring trade, and as far as I know, all of the nurserymen in the West feel pretty good, and the indications are, from what I can learn of the western nurserymen, that we are going to have a rousing meeting at Detroit.

I can say that I think that no live nurseryman can afford to stay away from this meeting. I will do what I can to help make our next meeting a successful one.

Yankton, S. D. GEO. H. WHITING.

VIRGINIA: A VETERAN MEMBER.

EDITOR NATIONAL NURSERYMAN:

I do not think many more of the nurserymen of our state will take much interest in the Association. However, after we get over our spring rush we will see if we can stir some of them up.

Sorry the convention could not have been held a little later, as it comes when most of the schools in our southern country have their commencement exercises, this will likely keep me from attending this meeting. I hope you will have a large meeting, and that you will get up a fine program, and those of us who cannot attend will get the benefit from the reports.

Richmond, Va. W. T. HOOD.

MISSOURI.

EDITOR NATIONAL NURSERYMAN:

I am glad to know that the NATIONAL NURSERYMAN is using strong efforts toward securing a well attended meeting in June. We nurserymen possibly are not doing our full share of the work along this line, but we ought to be able to get busy right now and keep busy till the meeting, to the end that we may have unusual interest and attendance at the Detroit meeting. I sincerely hope that we shall have a "live business convention with greatly increased membership" as you suggest.

If it is at all practical, one of the things that the nurserymen of this country ought to get adjusted along equitable lines, it is the inspection laws, that should be more uniform.

New Haven, Mo. R. J. BAGBY.

A VIGOROUS NOTE FROM UTAH—SOME POINTED COMMENTS.

EDITOR NATIONAL NURSERYMAN:

I am in full sympathy with the work of the American Association and appreciate the fact that it accomplishes much in stimulating the business and much good has been done along some lines, particularly that of transportation. While perhaps the nurseryman fares as well as other individuals, there is still room for improvement, and I believe that this committee, as far as I can learn, is accomplishing more than any of the others. It has been my misfortune to be unable to attend any of the Association annual meetings, except the one held at West Baden, Indiana. Being an entire stranger to a large majority of the members present I did but little mixing, therefore had an opportunity to do much observing. Was pleased with the good cheer that seemed to prevail among the members. Was much disappointed at the business accomplished, and noticed particularly that the older and more widely known nurserymen took but little interest in what was going on in the sessions, some of them rarely if ever attending, many others were there apparently for the purpose of looking up prospective buyers, while still others were out solely for a good time. I was interested in our New York delegation, who came down in their special car and who were much in evidence about the rotunda of the hotel but scarcely represented at all in the sessions; I think there is great room for improvement along these lines if our Association meetings are to be of much benefit to the members and business.

The big and older nurserymen must be in the front ranks, with rapid fire guns; it is from these fellows that should come information and practical knowledge of our business; they should be the leaders in every session. There are no subjects upon which older nurserymen could not furnish a vast deal of knowledge. Of the topics that

we discussed at the West Baden meeting, not one reached a conclusion, no question appeared to be definitely settled, here and there a theory advanced and then dropped. Much time was lost on such questions as the cost of growing a tree. I dare venture the assertion that the oldest and most practical nurseryman in the United States cannot approximate within 25 per cent. of what it costs to produce a tree, and if he would live to grow trees for 100 years he would be no better off in that respect.

I think that the time of the Association should be fully occupied with the larger factors pertaining to the business transportation, tariff, how to grow good trees, how to store them for the winter, how to pack, ship and deliver, and how to keep the nursery business up to the standard of other business enterprises ; and also national inspection laws.

Now, the writer attended the West Baden convention mainly for the purpose of getting information about cold storage buildings and how nursery stock was put away in them for the winter, but was obliged to see the convention closed without a word upon the subject and yet there were in that convention men who have built and maintained the most successful and best cold storage houses in the United States. To get the information I wanted I was obliged to return to Shenandoah, Ia., and make a careful and personal inspection of Mr. Lake's house. (Consult Madison Cooper, Watertown, N. Y. Ed.)

It seems to me that the question of maintaining our business along such lines as will rank us with other commercial enterprises is one that should be discussed at every meeting. There is too much carelessness in digging, growing and shipping stock in some nurseries ; a great many nurseries attempt to grow good stock but render 50% unmerchantable in the digging, 25% in the growing and the other 25% in the packing and shipping, so that when the retail man gets it he has nothing to work on. This gives the wholesale nursery a bad reputation for stock, the retail nurseryman an unenviable reputation as a kicker, a rascal and bad pay, and probably black ball him with the wholesale association; this is all wrong, uncalled for and should not have happened.

I have no doubt that the Detroit meeting will be well attended, as it should be. All nurserymen have had a successful year, and a very bright prospect for the one we are now entering upon, and we should all gather in from every quarter of the Union, full of good cheer, hearty fellowship, information and knowledge, and bubbling over to promulgate it, ready and willing to work along every line that looks toward the betterment of every nurseryman's condition, whether great or small.

The nurserymen of this section have, so far as I can learn, had a good trade the past year and successful deliveries this spring, and cleaned up closely on all stock. It would give me great pleasure to be present at the Detroit meeting and to do anything I can to further the interests of the Association. We are all young out here but growing. Our country is large, opportunities great and we all hope to make good. Yours for success,

Roy, Utah. P. A. Dix.

CALIFORNIA SENDS GREETING.

Editor National Nurseryman :

There is but little I could write about this state that is of special interest to the American Association of Nurserymen as I am sorry to say that most of the nurseries in California have taken but little interest in the Association although a large number should belong. Up to last winter they took no part in our Pacific Coast Association, but owing to interest aroused by the Hanford meeting I am pleased to say that we now have over thirty members there and that the total membership in our Pacific Coast Association has doubled since our meeting at Tacoma last July and before the meeting at Salem, Oregon, next July, we hope to have a total membership of over 100. After getting them into this Association, we are certain that a large number can be secured for the American Association and should you ever have a meeting on this coast, I am certain that a majority of our local Association would join and hope that the time is near when such a meeting may be had here.

I will not be able to attend the meeting at Detroit this year owing to expense and distance but there will be at least one representative from this coast. I am sending you one of our badge books and think if all members in it were stirred up you might be able to get several to join ; I will only be too pleased to assist in any way possible. Put in a good word at the Detroit convention towards getting some of the eastern nurserymen to attend our meeting at Salem in July. Nearly every one of our members should also belong to the American Association. (Right you are. Ed.)

We are not quite so strict as some of the eastern nurserymen are trying to be in regard to membership. We still "hold out the glad hand" to those in allied interests, and florists and dealers in nursery supplies are still cordially invited to join our Association as we nurserymen on this coast think that we can "hold them down" so that they will not control and run our business for us.

F. W. Power.

Chico, Cal. *Vice-President.*

THE OUTLOOK IN MINNESOTA.

Nursery work in the North is full of vicissitudes this spring. We had a good share of our April weather in March, and then the table turned. The first half of April has given us veritable winter weather. A large part of the Northwest is covered with snow, and high winds from the north and west keep a continuous low temperature which has greatly impeded the shipping process. The sun seems to be winning the battle, however, and one happy result has been the lessening of the flight of letters from customers who want their stock hurried, which, here in the region of short springs, annually appears with the birds of passage.

The Detroit Convention looks interesting. There ought to be a good attendance from the northern states. There seem to be fifty men in the nursery business in Minnesota for every one ten years ago. Out of these we ought to have more representation in the National Association. With the pleasant opportunities for travel on the Great Lakes, we hope to see a goodly contingent at the Detroit meeting. Business in this section has been very good this winter and the prospects are pleasing.

GRADING SHADE TREES.

We would like to see national nurserymen discuss the subject of grading shade trees. We have never been able to dig and grade intelligently on any other system than on the caliper basis. It has to be done that way if we are going to have any uniformity, and if we dig by caliper we have to inventory by caliper. Likewise it seems to us that it would naturally follow that stock of this kind should be offered and sold by caliper. If the nurserymen, as a whole, were to adopt this system, would it not often save confusion?

The railroads have been treating us splendidly here in the North this spring, as they generally do. Plenty of cars and a manifest desire to hurry up things. The newspaper fuss about incapacity of the Western lines has not touched us. We were afraid it might but it has not. We think most of the roads out here realize the importance of the nursery shipments to the country they penetrate.

The Jewell Nursery Co.,

Lake City. R. D. Underwood, Sec'y.

NORTH FLORIDA.

Editor National Nurseryman:

In regard to weather, we can say that the past two months beats anything we ever saw. The last of February and all of March was like mid-summer and very dry. April has been cooler than January, and we have had two or three frosts this month—one on the 15th. These frosts were severe enough to kill vegetables but did no harm to nursery stock. Just now we are having very heavy rains to average up the long drouth. I think yesterday and to-day it must have rained fully five inches.

Our pecan grafts never looked better at this time of the year, and prospects for fall sales are very flattering.

The Nut Nursery Co.

Monticello, Fla. R. C. Simpson, Mgr.

OKLAHOMA—PHILOSOPHICAL AND RETROSPECTIVE.

Editor National Nurseryman :

To have some one in the far East to whom one can converse with from this far and extreme distant point is rather a pleasant privilege, and to know that coming from Oklahoma will make a few words no less acceptable makes the matter of writing you still more inviting. If

a man is prosperous he likes to tell his friends about it, and if in hard luck and he feels that the world is against him then he is in misery and we all know that misery likes company, hence the further incentive to action.

Another year has passed and gone and with it the thought that my efforts for a higher plane in the profession have not been in vain. The summer of 1906 was an ideal year for tree and plant growth and as good in sales. Therefore sales were good and collections fair. The spring trade is over and stock cleaned up nicely. My plans for the coming season's work in a retail way are greater than anything of the past, but as the wheat crop is mostly destroyed by a little green fly, the future for tree sales will surely be very light this season unless the ground now in wheat can be utilized for some other kind of crop. At this date, April 26, grafts, cuttings, etc., planted in nursery rows are starting very nicely. The stand of peach, plum, apricot and cherry buds is starting in good shape and promise a good growth. Weather here in March was very warm, but since April 1st it has been very changeable and disagreeably cool, several times going down to a frost point.

The out-look for all kinds of fruit is fairly good. After the past year's hard work, from which I am now resting, I am being buoyed up with the pleasant thought that soon will be the Detroit Convention time and I will be permitted to meet all the boys again in a happy reunion at the Cadillac. Bidding you good bye till we meet in June.

Enid. J. A. LOPEMAN.

SECRETARY SEAGER'S CIRCULAR.

32D ANNUAL CONVENTION, AMERICAN ASSOCIATION OF NURSERYMEN, AT DETROIT, JUNE 12, 13, 14, 1907, HOTEL CADILLAC. PRESERVE THIS CIRCULAR OF INFORMATION.

Every nurseryman in the United States owes it to himself and to his brother nurserymen to become a member of the American Association of Nurserymen.

The work accomplished has been of incalculable value to all concerned. A great deal of it cannot be located, but the saving of $50,000 in one year on freight charges is a definite fact which can be counted so that even "he who runs may read."

The active work has been done by a few and at great personal sacrifice in most cases. The expense has been paid by less than five hundred individuals and firms out of three thousand who should have joined. This is not in accord with the spirit of equity which actuates more than any other class the spirit of those who have to do with the soil.

Will you join this year? Join from a selfish motive for you will get more than you pay; join because your conscience talks to you; join because your rule is to pay for what you get.

HOTEL HEADQUARTERS.

Following is the proposition of the Hotel Cadillac which was accepted by the executive Committee:

We write you regarding the meeting of the American Association of Nurserymen to be held in Detroit commencing Tuesday, June 11th, 1907, and ending Friday, June 14th, 1907. If the Hotel Cadillac is selected as official headquarters, we can give you, free of charge, the use of our banquet hall on the parlor floor for your business meetings and the use of the Flemish room immediately adjoining the banquet hall for your sub-committee meetings.

Our rates to your delegates will be as follows:

Rooms without bath $3.00 to $4.00 per day each person—American plan: rooms with bath $4.00 to $8.00 per day each person—American plan: European rates $2.00 to $6.00 per day each person. The rate of $3.00 per day—American plan, and $2.00 per day—European plan, applies only where two or more persons occupy a room, single rooms without bath being $3.50 to $6.00 per day—American plan; $2.50 to $6.00 per day—European plan. Rates on rooms with bath from $4.00 to $6.00 per day each person; where two persons occupy a room with bath a discount will be made.

Yours truly,

SWART BROS.

REFLECTIONS ON THE AMERICAN ASSOCIATION OF NURSERYMEN.

BY FORMER SECRETARY, CHAS. A. GREEN, ROCHESTER, N. Y.

The annual meeting of this veteran association will be held June 12th, in Detroit, Michigan. No better place could be secured. The attendance will doubtless be large and the meeting will be of great interest and benefit to nurserymen and through them to the country at large.

When nurserymen get together from the various distant localities of this country they are a sociable lot of men and have nothing but good words for one another. At home, however, before starting for the convention they have their jealousies the same as common mortals. Nurserymen do not all do business after the same fashion. Some employ agents, others sell through catalogs and advertising, while others aim to do a wholesale business, but it is claimed that the wholesalers prey upon the field of the retailer, and this causes hard feelings and is destructive to the trade.

Nurserymen who sell trees through agents do not hold love feasts with those nurserymen who sell through catalogs and through advertising, and some times those who sell through catalogs complain that the agents do not in their travels represent them as saints; thus there is occasional wrangling among nurserymen as among other business men, but it is gratifying to see how good natured they are when they all get together at their annual meetings, casting aside all jealousy at least for the time being.

Nurserymen are a hard worked lot of men. I have been a nurseryman for over 25 years and know whereof I speak. There is no more nerve straining or soul racking business than the nursery business. I am surprised that lunatic asylums are not filled with men who have broken down through their efforts to pack and ship the business of the year in a few weeks of fickle spring time weather.

Nurserymen are interested in the fruit outlook, therefore those who expect to interest nurserymen must keep a sharp outlook for prospects of the various crops of fruits. If there is a poor crop of peaches or apples, plums or pears, nurserymen will expect less call for trees of those varieties the coming year. How is the nurseryman to learn in advance what the orchardists are to plant during the next few years? He cannot learn these facts, but he must keep on planting and budding, judging of the demand for the future from the demand of the past, but this is often a unsatisfactory and unprofitable method of gauging the public demand for certain varieties or classes of fruits. This year the Kieffer pear may be in big demand, or the Burbank plum or the Greening apple, while next year but few of these varieties will be wanted by planters who have started off on another tack possibly for unheard of varieties which nurserymen cannot supply. This leaves the nurseryman with a lot of trees to burn, or to sell at unsatisfactory prices.

Nurserymen have, during the past year, had a remarkable and successful sale of plants, vines and trees throughout every part of the country. Scarcely any surplus has been left unsold except possibly of plum trees. There has been a remarkable call for strawberry plants, peach and apple trees also Bartlett pear trees. Strawberry plants have been scarce all over the country as have many kinds of pears and some varieties of apple trees.

ALABAMA NURSERY COMPANY TREE GAUGE.

The NATIONAL NURSERYMAN office is in receipt of a new and apparently very practical type of tree gauge. This has been devised by the Alabama Nursery Company, under the direction of Mr. Herbert Chase. It is made of cold, rolled steel, and the dimension parts are guaranteed to be accurate within a limit of one-hundredth of an inch. The material being hard does not wear with use. These gauges have been sent out as complimentary offerings to over one hundred firms in the United States. While the manufacturers and donors do not claim that this is the only gauge, and that it is absolutely perfect, they have experimented sufficiently to make them feel reasonably sure of their article. We personally acknowledge their kindness in remembering us, and wish their device every success.

Business Movements.

GLEN SAINT MARY NURSERIES INCORPORATE. REORGANIZATION OF NOTED FLORIDA NURSERY FIRM.

Notice has been given of the coming incorporation of this well known nursery firm. It was established by Mr. G. L. Taber about twenty-five years ago. For a number of years Mr. Aubrey Frink acted as secretary of the organization. Last fall Mr. Frink withdrew to form the firm of Frink, Barber & Co. and was succeeded by Professor H. Harold Hume, formerly State Horticulturist of North Carolina. Mr. Hume has acted as secretary and manager and will hold the same offices in the new company. The company has been capitalized at $300,000, of which President Taber and Mr. Hume will retain a controlling interest. Other stock holders resident at Glen Saint Mary are Messrs. Jernigan, Bass and Askew. The major portion of the stock has been subscribed. The balance will be sold as rapidly as possible.

THE PENNSYLVANIA NURSERY CO. INCORPORATED.

THE NATIONAL NURSERYMAN:

We are pleased to advise you that the Pennsylvania Nursery Co. has been incorporated under the laws of Pennsylvania with a capital of $25,000.00. The Company has purchased all the real estate, houses and lots, growing nursery stock and equipment of the Prudential Orchard Co. They are admirably situated for the propagation of a general line of nursery stock.

The B. & L. E. R. R. passes right through their farms which gives them a good service to all parts of the United States by connections with the leading trunk lines.

The new company will be under the management of practical, competent men and will rapidly increase the already acquired business.

They contemplate adding a system of greenhouses to the business.

Shermansville, Pa. PRUDENTIAL ORCHARD CO.

ARKANSAW NURSERIES CONSOLIDATE INTERESTS IN OKLAHOMA.

The Ben Davis Nursery, Bentonville, Ark. and the Parker Nurseries, Fayetteville, Ark. have been consolidated and a new plant established at this place. We have here ideal nursery land, and good facilities for handling a first-class nursery business. We are both young men in years, but old in the tree business, our fathers having been the pioneer nurserymen in the counties in which they reside in Arkansas, and we have "grown up" in the business.

OZARK NURSERY COMPANY,

Tahlequah, Okla. Geo. Parker.

Foreman Wanted A reliable, capable man with experience in managing a large retail nursery packing yard. Good salary and permanent position for the right man. State age, reference, experience and salary wanted.

X. Y. Z., care of National Nurseryman.

Obituary.

DEATH OF G. A. McKEE.

On March 25th, and at the age of 66 years, Mr. G. A. McKee of Mt. Selman, Texas, passed from this life. He is mourned by a devoted family and many friends. Mr. McKee established the Evergreen Nurseries and Floral Gardens in 1874. His three sons, S. R., J. E. and G. A. McKee, Jr. will continue the business. He was distinguished for his integrity, skill, knowledge, industry and all the sterling qualities that form the highest type of character. His work in horticulture was of great value to the world. His social qualities endeared him to everyone who met him. All honor is due him for a beautiful well spent life.

McKinney, Texas. E. W. KIRKPATRICK.

THOMAS H. DOUGLAS.

MY DEAR MR. EDITOR:

I know from a glance at the NATIONAL NURSERYMAN you have not learned of the great sorrow that has come to me. While in California making our annual visit, Mr. Douglas passed away at Los Angeles, March 26. On account of the great friendship existing between you, I felt I must notify you. Most sincerely,

Waukegan, Ill. (Mrs. Thomas H.) EMMA DIXON DOUGLAS.

It has been our privilege and pleasure to have known Mr. Douglas for a number of years and his passing is that of a personal friend. Mr. Douglas inherited from his father a deep love for horticulture. His tastes were æsthetic and sentimental rather than commercial. His interest in tree growth was from this standpoint more than the material and utilitarian. These tastes he inherited from his father who was eminent as a botanist and horticultural explorer. The Waukegan Nurseries achieved years ago an enviable reputation as growers and introducers of hardy and beautiful conifers. This reputation Thomas H. Douglas made strong efforts to sustain.

Many will mourn Mr. Douglas as a personal friend as we do and the tree loving world will realize that in his a severe loss has been sustained.

WANTED—Foreman to take charge of Ornamental Department. Must be experienced propagator of ornamental Trees, Shrubs and Evergreens. Steady employment; good pay. References required.

THE PHŒNIX NURSERY COMPANY,

Bloomington, Illinois.

HOW TO PAINT

Buggies, farm wagons, farming tools, barns, outbuildings and houses often need painting. **"Everybody's Paint Book,"** written by a thoroughly practical painter, will be found a complete guide to the art of outdoor and indoor painting, It is designed for the special use of those who wish to do **their own painting.** It gives practical lessons in plain painting, **varnishing, polishing, staining, paper hanging, kalsomining, etc.**

It also tells how to **renovate furniture** and gives many hints on artistic work for **decorating a home.** Precise directions are given for mixing paints for all purposes.

If farming tools and farm vehicles are kept painted, they will last twice as long, and anybody can do the work with the aid of this book. It is handsomely and substantially bound in cloth. A copy will be sent postage prepaid on receipt of price, **$1.00**

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THE NATIONAL NURSERYMAN PUB'G CO., INC.,
205 Cox Building,
ROCHESTER, NEW YORK.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

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On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Tall, Giant Flowering and Bronze leaf varieties.

SHRUBBERY.

Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.
Spireas, Van Houtte, A. Waterer, Frobeli, Blue.
Deutzias, Gracilis, Gracilis Rosea, Lemoini.
Altheas, Jeannie D. Arc, Banner, Dble. Red and Purple.
Berberry, Thunbergii all sizes up to 3 ft.
California Privet, 3 ft. up to 6 ft.
Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.
Weigelas Rosea, Rosea Variagata, Floribunda, Candida.
Hibiscus Crimson Eye.

Send for our illustrated catalogue and trade list.

THE CONRAD & JONES CO.
WEST GROVE, PA.

ESTABLISHED 1780.

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ANGERS, FRANCE,

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FOR NURSERY STOCKS OF THEIR OWN GROWING, GRADING AND PACKING.

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FIVE DAILY VESTIBULED TRAINS
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Free Reclining Chair Cars, Pullman Sleeping Cars, Wabash Dining Cars.

Full information regarding rates, etc., cheerfully given. Address,

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R. F. KELLY, G. A. P. D., 287 Main St., Buffalo, N. Y.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1907

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

THE FRASER NURSERY,

JOHN FRASER Proprietor,

HUNTSVILLE, ALA.

Our stock for Fall 1907 and Spring 1908 includes choice blocks of Cherry, Standard Pear, Quince and June Budded Peach in large grades. We will also have a good supply of assorted Roses and Magnolia Grandiflora. Will be pleased to quote prices now on any of these items. We invite correspondence, for special budding, from buyers of Peach and Plum.

BOX STRAPS

Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

Offers for Fall Shipment:

One, Two and Three-year Apple, Two-year Kieffer Pear, Two-year Sour Cherry, One-year Peach, in car-load lots. A good assortment of Japan Plums, one year and Mariana Stocks. Ask for prices.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

ROSES.

Diesbach, Clio, Druschki, Jacq., Jubilee, Lyonnaise, Plantier, Charta, Ul. Brunner, M. Dickson, Laing, Neyron, Lambelin. Baby, Cr., Phila., P. W. & Y. Ramblers, Balto. Belle, P. Queen, R. Cottage, Tenn. Belle, Wichuraiana, Hermosa, Teplitz. P. & W. La France, Et. de France, Kaiserin, Bes Brown, Chatenay, Q. Scarlet, M. Cochet, Gontier, Krueger, Solfatare, Lamarque, W. A. Richardson.

2½ IN. POTS. THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO. OWN ROOTS.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

J. F. ROSENFIELD, West Point, Nebr.

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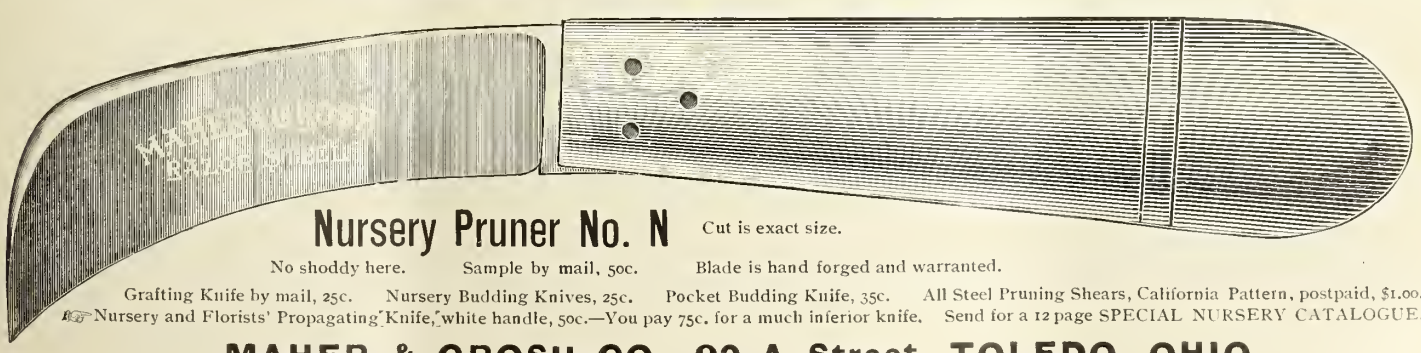
PEONIES

Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.



Nursery Pruner No. N

Cut is exact size.

No shoddy here. Sample by mail, 50c. Blade is hand forged and warranted.

Grafting Knife by mail, 25c. Nursery Budding Knives, 25c. Pocket Budding Knife, 35c. All Steel Pruning Shears, California Pattern, postpaid, $1.00.

☞Nursery and Florists' Propagating Knife, white handle, 50c.—You pay 75c. for a much inferior knife. Send for a 12 page SPECIAL NURSERY CATALOGUE.

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FOR NURSERYMEN AND FLORISTS

SAMPLES AND PRICES FOR THE ASKING.

DAYTON FRUIT TREE LABEL CO.
SOUTH CANAL STREET, DAYTON, O.

W. T. HOOD & CO.

Old Dominion Nurseries,

Richmond, Va.

OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Keiffer especially.

Natural Peach Pits, Crop 1906.

Write for prices.

For Sale—Johnson's Old Established Nursery and Fruit Farm at a sacrifice. Ill health of Mr. Johnson reason for selling. Only two miles from centre of the City of Allentown, and within five minutes walk of electric car. This is a splendid opportunity for a nurseryman or fruit grower. For particulars, address

E. E. DESH,
534 Hamilton St., Allentown, Pa.

Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

WANTED

A man who has worked in a nursery and who can take charge of a gang of men. Must be steady and industrious. Apply to

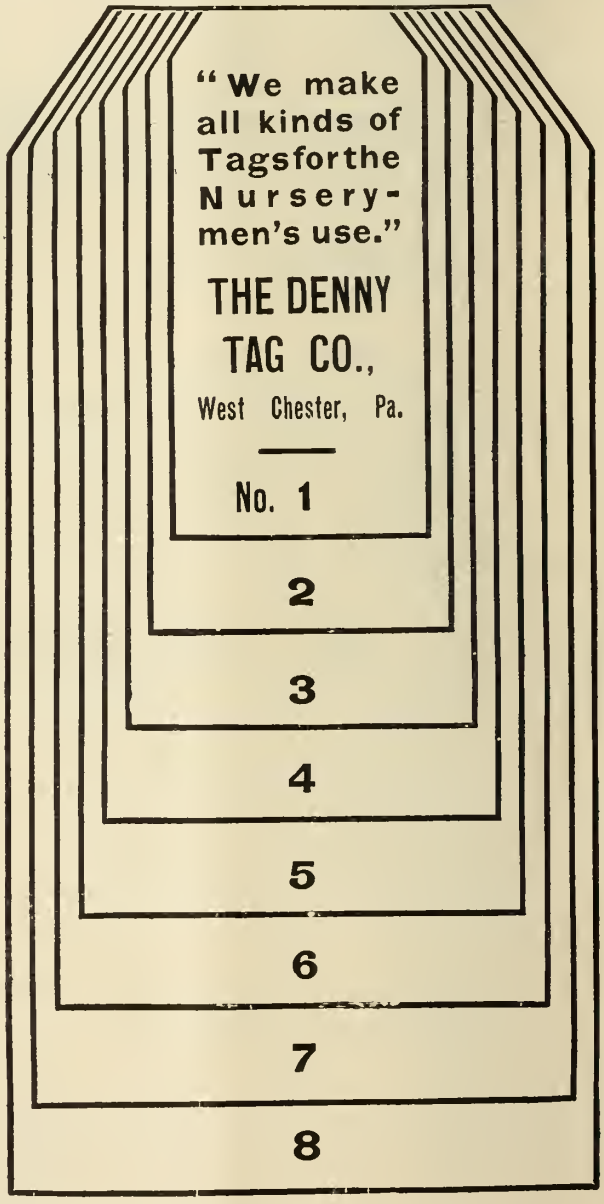
THE MORRIS NURSERY CO.,
WEST CHESTER, PA.

We Make a Specialty of the Manufacture of

Waterproof Shipping Tags and Tree Labels

"They will stand the weather."

THE DENNY TAG CO., West Chester, Pa.



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NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
133 READE ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

600 Acres. Established 1853.

PEACH TREES

A large stock of fine trees in all sizes, and the leading varieties—a good proportion Elberta.

JAPAN PLUMS

Largely Burbank, Abundance and Wickson.

ORNAMENTAL TREES

Have been a specialty in our business for 50 years—A large stock of Pin and Red Oaks, all sizes from two to fourteen feet, also Prunus Pissardi, Judas Tree, Lombardy Poplars, etc.

ORNAMENTAL SHRUBS

We have 50 acres devoted to growing shrubs and vines, and the largest stock of VIBURNUM PLICATUM in the country.

NATURAL NORTH CAROLINA AND TENNESSEE PEACH SEED CROP 1906.

SEND US YOUR LIST OF WANTS.

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New York Office, Columbia Building, 29 Broadway.

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P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.

QUALITY UNSURPASSED.

Catalogue and Price List Free.

Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

IMPORT NURSERY STOCK

We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Pæonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

McHUTCHISON & CO.

17 Murray Street, NEW YORK CITY.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

WANTED

Young man who has had practical experience in fruit tree nurseries. Must thoroughly understand budding and grafting. Regular wages $35.00 per month with found. During budding season, which commences about June 15th, and lasts until September 15th, $2.50 per day with found.

Address FANCHER CREEK NURSERIES, INC.,
FRESNO, CALIF.

W. FROMOW & SONS, Windlesham, England.

We have a great assortment (250 acres) of first-class general HARDY NURSERY STOCK, including a fine line of RHODODENDRON, Coniferous Evergreens, HYBRID and other ROSES; Manetti Rose stocks for budding or grafting, and the finest stock in existence of the true GOLDEN PRIVET. Also an immense stock of young stuff, well rooted, for Nurserymen's own planting. Let us appraise your wants for **Fall 1907**, or next spring delivery. Address our **American Agents**, also for latest trade-list,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING 1907,

a complete line of Fruit, Shade and Ornamental Trees, Shrubs, Herbaceous Plants, Seedlings, Maples, Ash, Catalpa Speciosa, Tulip, Poplar, Mulberry, Oaks, etc., 500,000 Black Locust in all grades. Shrubs, etc., for lining out. Special prices quoted upon application on American Elm, American Linden, Green, and White Ash, Tulip, Poplar, European Sycamore, American Sycamore, European White Ash, and a number of other trees from 6 to 14 feet. Black Locust, Norway Maple, Catalpa Speciosa and other tree seeds.

THE DONALDSON COMPANY,

WARSAW, KENTUCKY.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES, Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

"Red Star" Raffia

STILL REDUCED

but up may go the price when this importation is sold. Every nurseryman knows that **"Red Star"** Raffia means guaranteed quality. Send for prices. Sample free.

THOMAS MEEHAN & SONS, Box T, Dreshertown, Pa.

We Are Growers

Of HARDY ORNAMENTALS, TREES, CONIFERS, EVERGREENS and SHRUBS

WE SUPPLY ONLY A-1 QUALITY.

Address our American Agents :

AUGUST RÖLKER & SONS, New York,
P. O. Box 752 or 31 Barclay St.

GOOSSENS & HELLEMONS,
(Formerly C. ESCHWEILER.) *Oudenbosch, Holland.*

Your Last Chance

STRAWBERRY PLANTS

15,000 Ekey,
100,000 Marshall,
100,000 Senator Dunlap,
100,000 Gandy,
100,000 Oak Early,
30,000 Southerland,
50,000 Livingston,
10,000 Parsons,
150,000 Tennessee,
20,000 Mark Hanna,
10,000 Rough Rider,
50,000 Warfield.

PEACH TREES

	6–7 ft.	5–6 ft.	4–5 ft.	3–4 ft.	2–3 ft.	1–2 ft.
Amsden June,	....	40	25	160	100	00
Arkansas Traveler,	....	....	50	140	190	175
Arkansas Beauty,	....	50	75	160	275	200
Admiral Dewey,	....	....	1000	1400	1000	700
Barber,	....	....	....	100	90	50
Brandywine,	....	200	....	400	400	100
Bray's R. R.,	1200	1000	800	800	....	1000
Belle of Georgia,	500	1000	500	1000	900	500
Bilyeu's Late October,	....	....	....	....	850	1400
Burke,	....	....	....	1000	1400	1400
Connecticut,	100	100	20	20	30	....
Connett's So. Early,	200	....	....	....	....	....
Christiana,	500	....	....	....	50	....
Carman,	....	....	....	....	1200	2000
Champion,	....	1000	....	....	1000	500
Crawford's Late,	400	....	....	300	480	....
Crawford's Early,	875	1000	500	6000	3500	3475
Chilow,	20	50	30	40	30	25
Early Rivers,	50	....	....	....	....	....
Elberta,	....	....	....	4000	9800	9600
Engles' Mammoth,	....	....	....	1500	2000	1750
Early Michigan,	....	....	90	135	165	165
Early Davidson,	....	5	40	160	360	475
Early Tillotson,	....	30	30	20	45	....
Eureka,	....	....	....	80	60	30
Fox Seedling,	....	....	....	300	930	960
Foster,	....	....	....	825	1300	900
Fitzgerald,	....	....	....	190	1000	1200
Frederica,	....	10	20	40	50	25
Gordon,	100	50	100	100	50	50
Hill's Chili,	....	....	200	1300	1470	1500
Hieley,	200	800	375	385	350	100
Hobson's Choice,	....	10	20	100	320	325
Hale's Early,	....	60	25	80	50	70
Haines' Surprise,	....	50	10	20	10	10
Jacques' R. R.,	40	50	10	20	10	10
Kalamazoo,	100	200	500	1500	1000	1000
Levy's Late,	....	200	400	300	300	50

	6–7 ft.	5–6 ft.	4–5 ft.	3–4 ft.	2–3 ft.	1–2 ft.
Lemon Cling,	100	....	....	....	....	....
Lodge,	200	200	175	200	100	100
Mountain Rose,	875	750	500	700	1950	1450
Moore's Favorite,	100	200	100	100	100	100
McAllister,	....	....	....	970	1000	....
Mamie Ross,	....	....	60	50	100	50
Miss Lola,	....	....	20	60	20	20
Mrs. Brett,	....	80	40	50	50	20
New Prolific,	100	100	100	1490	2000	1300
Old Mixon Cling,	70	20	20	80	200	175
Philip Horton,	10	25	40	100	200	175
Picquet's Late,	....	....	....	....	100	175
Pearce's Yellow,	....	10	50	80	190	150
Ray,	1000	1000	1000	1000	1000	1000
Reeves' Favorite,	200	....	....	1500	3875	1975
Red Cheek Melocotoon,	....	....	....	30	100	25
Steadley,	....	50	60	100	100	100
Scott's Nonpareil,	....	20	70	150	300	275
Switzerland,	....	10	10	70	100	50
Stephen's R. R.,	....	....	....	....	200	200
Shipley's L. Red,	....	10	45	200	200	100
Sunrise Cling,	300	300	300	600	600	200
Schumaker,	....	30	....	50	28	15
Smock Cling,	50	10	70	70	50	50
Stump,	....	....	....	....	500	500
Salway,	650	....	....	....	500	1000
Troth's Early,	400	200	100	80	100	100
Victor,	....	....	....	90	50	75
William's Favorite,	....	....	20	20	20	20
Wager,	....	85	55	....	....	....
Waterloo,	....	50	90	200	225	300
Wilkins' Cling,	300	100	....	190	500	....
Wheeler's Late,	....	50	50	50	50	50
Wheatland,	....	500	500	500	450	300
Walker's V. Free,	90	70	50	50	100	....
White Heath Cling,	100	50	50	50	100	100
Weaver,	....	10	90	90	190	75

APPLE TREES

	¾ 2 Years 6–7 ft.	⅝ 2 Years 5–6 ft.	9/16 2 Years 4–6 ft.	½ 2 Years 4–5 ft.
Aiken,	....	100	....	200
Alexander,	50	100	....	100
Cooper's Market,	50	50	....	50
Coffelt Beauty,	100	....	....	....
Carthouse,	200	200	....	....
Dominie,	....	100	....	200
Early Ripe,	....	1500	400	200
Flora Belle,	....	1200	500	200
Fameuse,	300	500	....	500
Grindstone,	80	....	....	....
Hubbardston,	....	100	....	....
Kennard's' Choice,	....	100	....	200
Mann,	....	500	200	200
McIntosh,	....	....	300	1000
Newtown Pippin,	100	1000	....	500

	¾ 2 Years 6–7 ft.	⅝ 2 Years 5–6 ft.	9/16 2 Years 4–6 ft.	½ 2 Years 4–5 ft.
Northern Spy,	....	500	....	100
Nero,	....	200	....	....
Roxbury Russett,	200	1000	1000	500
Ribston Pippin,	80	50	....	....
Red June,	....	700	....	200
Rawles' Janet,	200	1050	160	100
Stayman's Wine Sap, 910, 2 to 3 feet.				
Starr,	50	50	....	50
Tallman's Sweet,	100	....	....	....
Winter Banana,	....	1500	....	500
Wealthy,	....	500	500	500
Wolf River,	200	1000	....	300
Wine Sap,	200	....	....	....
Yellow Transparent, 3000, 3 to 4 feet,	500	....	....	....

PLUM ON PLUM ROOT

	5–6 ft.	4–5 ft.
Burbank,	500	500
Red June,	300	300
Wickson,	500	500
Lombard,	330	
Shipper's Pride,	300	

PLUM ON PEACH ROOT

	5–6 ft.	4–5 ft.
Red June,	200	700
America,	100	100
Waugh,	200	100
Early Gold,	50	100
Matthew's Beauty,	50	100

50 Silver Maples, 8 to 10 feet.

50 Carolina Poplars, 8 to 10 feet.

1,000 Russian Mulberry, 6 to 8 feet.

1,000 Western Blue Cedar, 2 to 3 feet.

2,000 Siberian Arbor Vitae, 2 to 3 feet.

3,000 Siberian Arbor Vitae, 18 in. to 24 in.

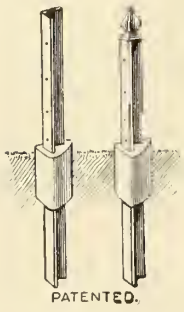
J. G. HARRISON & SONS, Berlin, Md.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.



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ONE THIRD CHEAPER THAN WOOD POSTS.

They Last Forever. **Are to be Driven.**

Farm, Field, Lawn, Clothes, Hitching, Street sign and Grape Posts. Plain, barbed and woven wire of every description can be used with these posts. 250,000 sold last year. Thirty miles of 58 inch heavy woven wire fence erected on Standard Steel Posts on one estate.

Write for circular, price list and reference to

J. H. DOWNS, 299 BROADWAY, NEW YORK. Factory Near Pittsburg, Penn.

"Our trees are stocky."

GRAFTED PECANS

AT

WHOLESALE.

THE NUT NURSERY COMPANY,

R. C. SIMPSON, Mgr., - - - MONTICELLO, FLA.

"ESTABLISHED 1859."

PEACH SEED

If you wish to secure your Peach Seed for next season, act promptly as conditions are desirous and you may not be able to get them when you need them.

W. W. WITTMAN & CO.,

P. O. Box 451. BALTIMORE, MD.

Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

BEDDING PLANTS. New varieties of Geraniums; one of our great specialties in this line are Double Petunias for which our strain is well known. Hardy Shrubs, Rhododendrons, Azaleas, Roses, Hardy Climbers.

AQUATIC PLANTS. Water Lilies, Nelumbiums, Victorias, Boz and Aquarium Plants, the most complete assortment of hardy and tender varieties.

All fully described in our Wholesale List issued quarterly, and mailed free to the trade only. If you do not receive this catalogue regularly, please advise us.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

SPECIAL SURPLUS.

We have the following stock in our cellars in surplus ready for shipment as ordered and would be pleased to quote prices on your list of wants.

Apple.	Lilac.	Teas Weeping Mulberry.
Pear, Standard.	Norway Spruce.	Kilmarnock Willow.
Pear, Dwarf.	American Arbor Vitae.	Camperdown Elm.
Plum.	Balsam Fir.	Weeping Mountain Ash.
Peach.	Irish Juniper.	Cutleaf Weeping Birch.
Cherry.	White Spruce.	Black Locust Seedlings.
Grape.	European Larch.	Catalpa Speciosa Seedlings.
Currant.	Douglas Spruce.	Russian Mulberry Seedlings.
Gooseberry.	White Pine.	Import Stock.
Roses.	Maple, Silver.	Apple Seedlings.
Tree Roses.	Maple, Norway.	Pear Seedlings.
Rhododendron.	Maple, Schwedlers.	Mahaleb Seedlings.
Clematis.	Poplar, Volga.	Quince Seedlings.
Althea.	Poplar Carolina.	Rudibecka.
Spirea.	Plane, Oriental.	Pæonia.
Hydrangea.	Linden, European.	German Iris.
Purple Fringe.	Mulberry, Russian.	

We have 10,000 Norway Maple, 5 to 6 feet and 6 to 7 feet, straight stems, just the thing for transplanting, also Silver Maple, 3 to 4 ft., 5 to 6 ft. and 6 to 8 ft.

Catalpa Speciosa, "selected" and Black Locust Seed.

J. K. HENBY & SON, Greenfield, Ind.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

When writing to Advertisers mention The National Nurseryman.

Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF

NURSERY and FLORISTS' STOCK

IN THE UNITED STATES, INCLUDING **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

Field Grown Hardy Roses

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

Eugene Furst Rose.

A Few of the Items We Have in Large Supply

SPECIAL PRICES ON EARLY ORDERS. Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata, Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. ¶ Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

51 Years **1200 Acres** **44 Greenhouses**

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Evergreens
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All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose Frau Druschki, mailed **FREE** on request.

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ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

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SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
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Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.,
GENEVA, NEW YORK

When writing to Advertisers mention The National Nurseryman.

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Our leading specialty; they are fine, healthy, acclimated, field-grown plants, two years old; they are better than the Holland-grown and cost less; the fact that we are now the largest Clematis-growers in the world, putting on the market annually over two hundred thousand Paniculata and large-flowering Clematis, is an indication that our plants and our prices are about right.

We grow ROSES, too, on own-roots and budded; AMPELOPSIS VEITCHII—100,000 of 'em this year—and have another fine block of those "J. & P." TREE HYDRANGEAS coming on.

Those wanting to buy now at profit-saving prices should write us; for early orders, we are offering inducements that are worth while; last year's early buyers saved something on Clematis and Tree Hydrangeas. Better write us now.

JACKSON & PERKINS CO.,
WHOLESALE NURSERYMEN,
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Let Us Give You Some Especially Low Prices

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FICUS ELASTICA,
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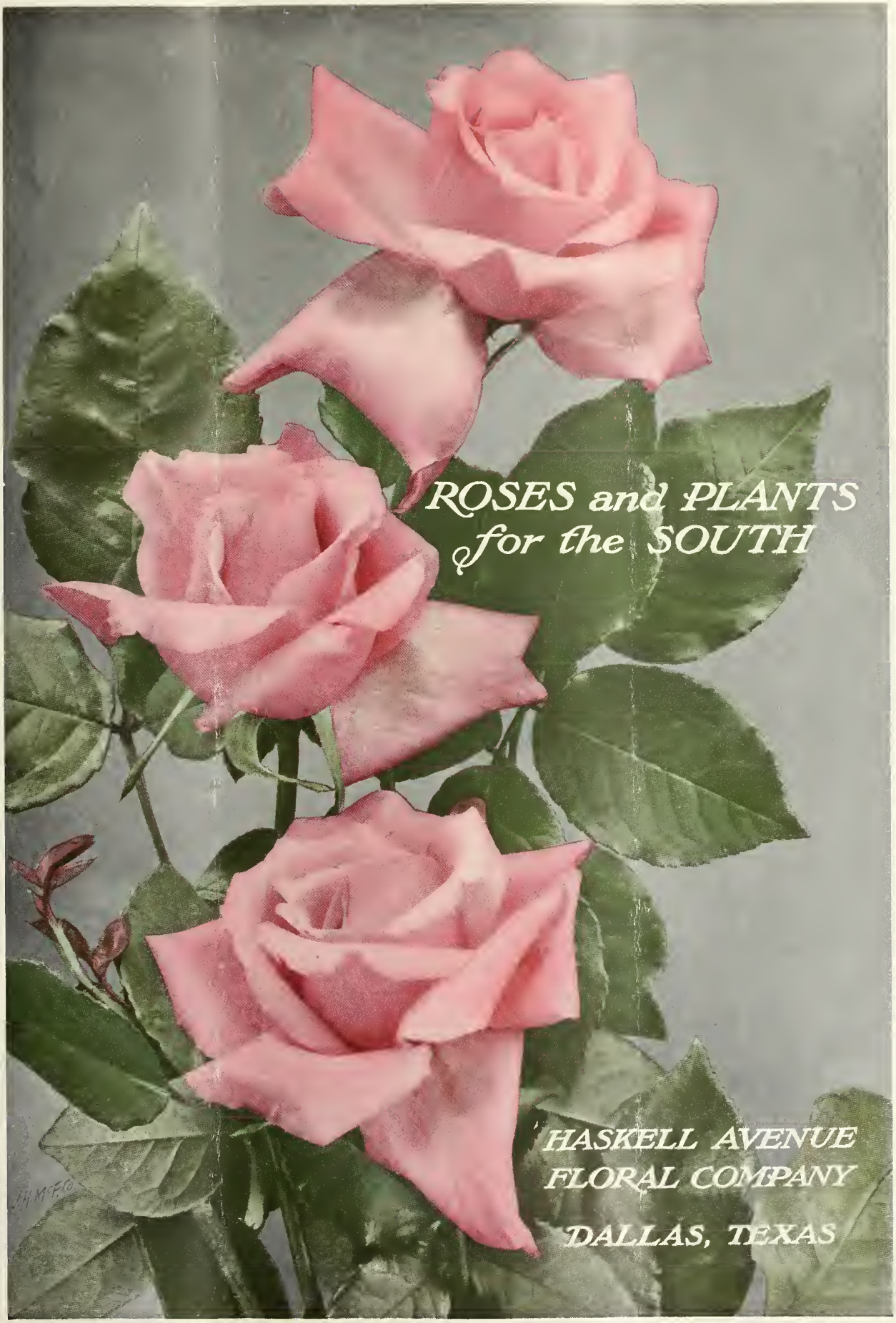

A 1907 ROSE-SELLING CATALOGUE COVER

DESIGNED, PHOTOGRAPHED AND COLOR-PRINTED BY THE

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

OVER

The 1907 Nursery Business

has been generally satisfactory to progressive tradesmen who were ready for it. There are some nurserymen who recognize the expansive possibilities for the sale of trees, plants, shrubs and vines, and who realize that America has hardly yet begun to buy the vast stocks that will be needed by a wealthy, pushing, energetic and beauty-loving people.

These Nurserymen had the best stocks, the best catalogues and the best trade. They will be in the front rank all the time, for they belong there. But that front rank can be broadened, and no one need be a tail-ender who really wants to follow right after the Prosperity Band.

The Mount Pleasant Press had a great catalogue season, and ninety per cent of its work was done for the successful front-rankers.

We cannot provide a fine stock, good business methods and real energy, but we can and do supplement these primary necessities most effectively. We make the best efforts of the best nurserymen better in selling power by our original, attractive and convincing catalogue work.

Frankly, we are not greatly interested in the cheapest labor, the poorest paper and the lowest price for this work. We have been kept busy for many years developing efficieney rather than cheapness, and we find there is a lot more fun in making our moderate twenty per cent profit on catalogues that are a real satisfaction alike to the customer and to ourselves than we would have in raking in a much larger profit from cheaply done work.

There is a considerable economy and a large advantage in making eatalogues IN THE SUMMER. Nurserymen are tired, however, after a good season, and do not seem to want to save money; so we'll cheerfully serve them in the hurry-up fall and winter at the necessarily higher prices of the busy season, as usual.

At any time we are catalogue-ready, with experienee and illustrations and methods unequaled. Write us whenever you are interested; we'll always do our best for you.

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

☞ Mr. McFarland will not be at the Detroit Convention, as he is recovering from a surgical operation. His photographic eyes, Mr. O. P. Beckley, will be on hand, with pictures and a handshake for old and new friends.

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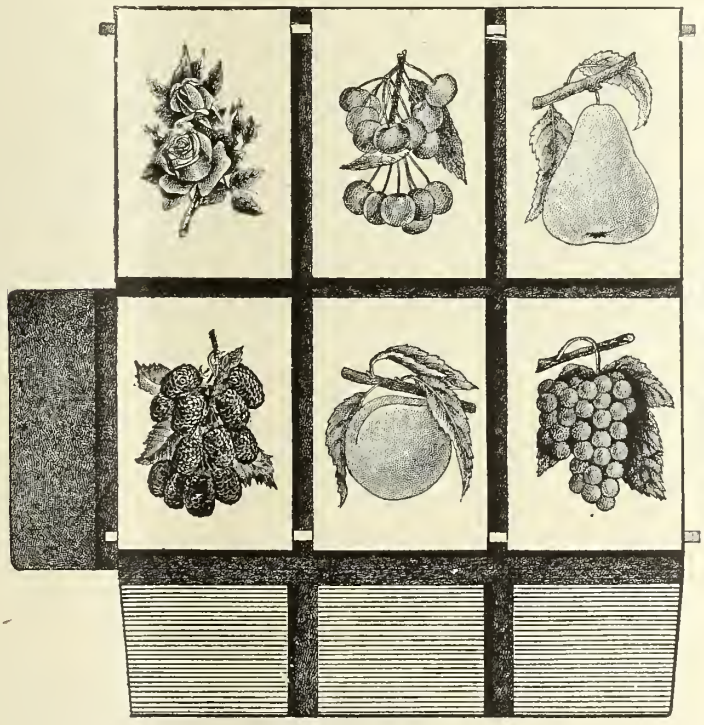

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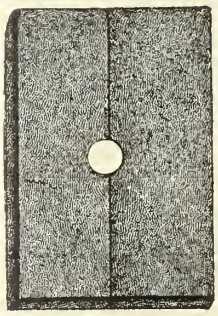

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Rochester Lithographing Co.

Rochester, N. Y.

Mr. G. L. Taber. Mr. H. Harold Hume.

The men and the place. President and Secretary of the Glen Saint Mary Nurseries, Glen Saint Mary, Fla. Oranges and kumquats as tub plants.

The attractive home of Mr. G. L. Taber, Glen Saint Mary Nurseries.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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THE GLEN SAINT MARY NURSERIES, OF FLORIDA.

HEADQUARTERS FOR CITROUS FRUITS.—LARGE GROWERS OF ORNAMENTAL STOCK.—SPECIALISTS IN PROPAGATING PECANS.

[Written by our Special Correspondent After Personal Visitation. Photographs by J. Horace McFarland Co., H. Harold Hume and John Craig.]

The writer of this article is always as much interested in the steps by which a firm reaches an enviable position in the eyes of the industrial world as he is in the mere material development which the present condition of the firm represents. The growth of an institution is inevitably linked with the individuality of the men promoting it. The character of the business bears an indelible impress of the peculiarities of the backers. These statements are truisms, nevertheless they are worth repeating; and nowhere in the range of our observation have they more appropriate application than in connection with the business of the firm which we now have the pleasure of describing.

A shipment leaving the packing house.

Twenty-five years is a large section out of the active years of a man's life. It is, however, a short span in which to develop a business of dominating influence in any line. The Glen Saint Mary Nurseries represent only a quarter of a century's growth. Yet at the present day they stand for important ideals and striking achievement in the growing of nursery stock adapted to the great Gulf region and the southwest.

About twenty-five years ago a young man of Maine parentage found that it was desirable, if he would prolong his years, that he should move from the somewhat fickle and trying climate of Chicago to the more equable and salubrious region of the South. In prospecting through the Carolinas, Georgia and Florida he selected a small tract of land in the pine woods of north Florida, only a few miles from the Georgia line, and there pitched his tent. It was here, at the station called Glen Saint Mary, about thirty miles west of Jacksonville on the Sea Board Air Line Railway, that Mr. G. L. Taber settled in 1882, and took the first steps towards building up the great business which afterwards made the place known in all the tree-planting world of the southwest and the tropics.

Oranges heeled in for packing.

Beginning in the "piney woods" with a tract of twenty-five acres, the nursery area grew rapidly year by year, the clearing enlarged, the blocks of stock multiplied, until at the present time an area of 470 acres is operated, in addition to the acres of rented land outside.

The owner of these nurseries has ever kept in mind the ideal of quality. To grow good stock, have it true to name, and sold at fair prices has been the rule. The catalogues of the firm, like the nursery stock, illustrate the best of their kind. The first one was issued in 1885.

To-day these catalogues are works of art and accuracy. They can be depended upon as contributions to the library of the pomologist, as well as the trade list of the nurseryman. The business has spread outside of the United States, and patrons are found in all of the tropical countries, including the West Indies and the countries of South and Central America.

Glen Saint Mary peaches.

CHARACTERISTICS AND PRINCIPAL FEATURES.

When the proprietor began business in this region he knew little about the adaptations of varieties, little in regard to the possibilities of the soil and climate, but he had an inquiring mind. It is often a saving clause in the nurseryman, and is an absolute essential in the case of the experimentalist. The spirit of inquiry and the desire to know led him into the field of experimentation, and from the outset, trial grounds have been leading features of this firm's business. Everything which gave any promise of success in the region has been secured and tested.

THE PEACH INDUSTRY.

With the introduction of the Chinese strain of peaches came a rapid extension of this industry in the Gulf States, and this nursery was one of the promoters of that type of peach which has made the industry stable and reliable in the warm regions. Among peach introductions to be credited to the firm are Angel, Imperial, Taber, Estella, Florida Crawford, and several others. The success of this group of peaches has created a demand which has been promptly accompanied by the increased area devoted to this queen of the South. As an illustration, practically $1,000 worth of peach pits were planted by this firm last season. Of course, the peach-growing effort is not restricted to the Gulf State section, for peaches which are adapted to northern localities are grown in great quantity, as well as those for the regional section described.

THE CITROUS INTERESTS.

If there is one thing more than another for which this firm deserves a large share of public recognition and credit, it is the establishment of an important principle in orange culture, namely, that the stock has a predominating influence upon the constitution and vigor of the scion. The industry in Florida has met with many reverses, nearly all due to severe drops of temperature. These periodical freezes have constantly pressed the line of safe orange culture farther and farther south; but there is a renaissance in orange-growing, a renewed feeling of confidence being engendered by experience and the advice of the Glen St. Mary Nurseries, has been developed. The Citrous trifoliate stock and the Satsuma orange have both demonstrated their value for northern citrous regions, and nowhere in the country is such an emphatic illustration of the value of these citrous forms to be found as in the nurseries under discussion. The Satsuma orchards planted by Mr. Taber have not only succeeded as groves, but they have

Citrous stocks at different stages of growth.

Frotscher Pecan Trees in Glen Saint Mary Nurseries.

Citrous stock in quantity.

Among the Camphor Trees, Glen Saint Mary Nurseries.

brought commercial and financial success. This grove of twenty-five acres is to be looked upon as a great demonstration experiment, and of untold value to the citrous industry of Florida and the Gulf coast. Notwithstanding the frequent recurrence of hard winters in recent years, ten carloads of Satsuma oranges were shipped from this orchard during the season of 1905-6.

In view of the above facts, it is reasonable, then, to expect that the Glen St. Mary Nurseries would be in the very forefront of the leaders in the production of citrous fruit trees. Great masses of citrous stocks, including sour orange, rough lemon, grape fruit, in addition to Citrous trifoliata, are planted each year. Inasmuch as the citrous stocks must be carried over two or three years before budding, the reader will at once realize that with these successive crops coming on, the area involved must be great. While the Satsuma is one of the prominent varieties, yet all kinds of citrous fruit trees are cultivated in orchards and grown both for the retail and the wholesale trade.

The kumquat, an interesting little citrous fruit, is one of the forms to which this nursery has given special attention, both as an ornamental and as an economic plant, for a number of years. They have consistently advanced its claims to the northern florist as a tub plant possessing extraordinary merit, and large numbers of the specimen tub plants, laden with their beautiful globular or oval fruits, are to be found on their grounds at all seasons of the year. Northern florists are coming to recognize the value of this little tree, so well adapted to pot culture, and are making use of it.

Mr. Taber contemplates the growth of his citrous stock, Glen Saint Mary Nurseries.

OTHER SUB-TROPICAL FRUIT PLANTS.

Aside from the citrous fruits, one finds in these well-stocked nurseries good collections of pomegranates, mulberries, loquats, figs, persimmons, and many plants of economic value, such as camphor, which is now attracting the attention of experts in the Department of Agriculture. The persimmon and mulberry are grown extensively in the Glen St. Mary Nurseries, and there is a well-defined and growing demand for the best forms of these fruits in the South and Southwest.

Sprouting budded citrous stock in the Glen Saint Mary Nurseries.

NUT TREES.

In no branch of pomology is there a greater interest at the present moment than in this group of fruits. The pecan in the Gulf States and the walnut on the Pacific Coast are absorbing much attention from the fruit propagator and the fruit tree planter.

The Glen St. Mary Nurseries of Florida became interested in the pecan and its improvement at an early day. There are samples of Frotscher pecan trees on these grounds which represent the first pecans of this variety ever propagated by grafting in Florida. In the person of the manager and secretary, H. Harold Hume, the nursery has a specialist in pecan culture. Large quantities of seed are planted each year, and these seedlings budded or grafted to the best varieties known; and one of the things which the firm prides itself in is that the *varieties* sent out *are true to name*. Perhaps in no branch of pomology is there greater confusion at the present time than in pecans. This is a public catastrophe and disastrous to the welfare of the industry, but it is regrettably true. The nurseries are the headquarters for the leading varieties of propagated pecans.

PLUMS FOR THE SOUTHWEST AND GULF STATES.

These nurseries tested the plums of the North and the East and the descendants of the Domesticas, which are succeeding so well in New England and New York. They tried the Japanese; they were practically all in greater or less degree unreliable; and a feature of the work of this nursery has been to test the various hybrids and combinations of the European and Japanese plums with natives, which have been recently brought to light. They have been instrumental in introducing two varieties of great merit for this region. These are Excelsior and Terrell, introduced respectively in 1887 and 1904. What is true of the groups of fruits described above is also true of the persimmon and the walnut. In short, we have here at Glen Saint Mary a testing ground for those pomological introductions which promise to be of value for this whole Gulf region.

Corner of Packing Shed.

Birds-Eye view of orange orchards and nurseries.

ORNAMENTALS.

Northern Florida is peculiarly adapted to the cultivation of the rose. Nevertheless, even here there is great variation in the behavior of different varieties, and many years have been spent in the testing and study of the great list of roses, in order to sift out those which are best and most satisfactory. The work is still in progress, but at the present time there is a very reliable list offered to the planting public by these nurseries; and one of the most interesting features of their grounds is the rose department, where among the many kinds and classes grown there is perpetual bloom. The area devoted to roses varies from ten to fifteen acres. Imagine a mass of bloom of this extent of the kinds that we so carefully cultivate in hothouses in the North.

NOMENCLATURE.

We have already suggested that nomenclature, that

Oranges in tubs, Glen Saint Mary Nurseries.

The noted Satsuma orange orchard as seen from the veranda of Mr. Taber's residence, Glen Saint Mary Nurseries.

trueness to name, were features of the nursery business which occupied the closest attention of the managers of this nursery. Bearing trees of many of the types grown are to be found on the grounds, and scion blocks of fruiting trees are maintained. This gives a nursery a great advantage. They are not dependent upon the work of other men as to the verity of the variety purchased. They simply *know* because they cut from their own scion stock.

LAND AND EQUIPMENT.

The land is the best of the rolling sandy lands of northern Florida. Its undulations provide surface drainage, but not to the extent that surface erosion is a troublesome factor. The soil holds moisture well. The climate furnishes ideal growing conditions. Seeds and cuttings produce good root systems and the fertility of the soil is easily maintained.

Storage houses of the type used in the North are not necessary, but still a type of storage house is essential in connection with the citrous part of the nursery work, and the plant shed covers three-quarters of an acre of ground. The material part of the organization is greatly aided by possessing its own blacksmith and carpenter shop. It is supplemented by plenty of engine power for the purpose of running machinery, pumps, feed cutters, and so forth.

The business life of the organization is centered in a modest but convenient and commodious building, where the president and treasurer, vice president and secretary, and the office force maintain their headquarters. It is unique as an office building, possessing a photographic dark room, a mechanical addressing device, and a printing press. In this way the nursery is independent, and can get out printed matter and its catalogues in very short notice. A part of the building equipment of the establishment is a store where a good assortment of supplies are kept for the use of workmen and others.

PERSONNEL OF THE COMPANY.

As men are greater than things, so an examination of the individuals making up a company is always more interesting than a study of the material equipment. The president and treasurer of the Glen St. Mary Nurseries, and exclusive owner for twenty-five years, is Mr. George Lindley Taber. He has been the active promoter, the man in the field, in the office, and in the commercial world for these many years. His association with the Florida State Horticultural Society, with the American Pomological Society, and with those organizations which make for the advancement of fruit-growing generally, is indicative of the type of man and of his intellectual characteristics.

Lately he has enlisted the assistance of Mr. H. Harold Hume as vice-president and secretary of the new company. Mr. Hume, since his graduation from the post-graduate department of the Iowa State College, has labored continuously in the field of southern pomology. For five years he was botanist and horticulturist of the Florida Experiment Station, and for two years State horticulturist of North Carolina. Mr. Hume is one of the best posted men on southern fruit-growing in the country. His publications while horticulturist of the Florida Experiment Station are standards of their kind, and as author of "Citrous Fruits and Their Culture," "The Pecan and Its Culture," he is widely known."

The other men who are associated with Messrs. Taber

and Hume are Mr. C. M. Bass, field manager, connected with the Glen St. Mary Nurseries for eighteen years; Mr. Warren S. Askew, assistant secretary, and in charge of the office work; Mr. W. P. Jernigan, formerly of the Florida Experiment Station, and now in charge of the finances of the company; Mr. L. Wolf, who has charge of the shipping department. Mr. Wolf comes from a railroad experience which gives him a great advantage in work of this kind.

REORGANIZATION.

At the present juncture the Glen St. Mary Nurseries, after twenty-five years of successful effort, in which Mr. Taber has carried the responsibility and furnished the initiative, are being reorganized. A joint-stock company is being formed, and will have been incorporated by the time this article reaches the reader. The Glen St. Mary Nurseries Company will be the name of this honorable institution. The same policy which has made the nurseries famous in the past will be continued. The same patronage is expected, and the same effort on the part of the management will be put forth to give the customer satisfaction in the quality of his stock and in the promptness of the delivery. The company has been capitalized at $300,000, and should it continue its successful career of the past years, an investment at par will bring rich returns to the stockholders. A small amount of stock is being offered to the public. Applications for this stock may be made to G. L. Taber, treasurer, or W. P. Jernigen, assistant treasurer, at Glen St. Mary. The NATIONAL NURSERYMAN joins the large group of acquaintances and friends which this company has accumulated in its years of honest well-doing, in wishing it the fullest success in this new venture.

TO THE AMERICAN NURSERYMEN:

Where have you been since our last meeting at Dallas, Texas? You have been wandering over the nursery, to find the leaks; you have been spending long hours in the office, to see nothing escapes your attention; you have promised yourself a rest at some future time. You have denied yourself the pleasures of life that rightfully belong to a nurseryman; it's a duty you owe to yourself and family that you break away from business for one week. Take my word for it—you will not regret your time and expense. There will be something doing at Detroit when the American nurserymen clasp hands once more. We shall attend to business, and take pleasure in it.

ORLANDO HARRISON,
President, American Association of Nurserymen.

Berlin, Md., May 20, 1907.

CHANGE IN NAME.

The manufacturing business established in 1867 by Benjamin Chase and successfully carried on by him for nearly forty years will be conducted in the future by

THE BENJAMIN CHASE COMPANY.

Notwithstanding the change in name, the personnel of the concern remains as before, and the same care and promptness heretofore credited in the filling of orders may be counted upon in the future.

BENJAMIN CHASE, President. JOHN C. CHASE, Treasurer.

Derry, N. H., May, 1907.

EDITOR NATIONAL NURSERYMAN,
Rochester, N. Y.

We have just been awarded the $100 cash prize offered by Brown Brothers of your city, for the best grown 100 plants of the new Baby Rambler Rose. Yours truly,

Cayuga, N. Y. H. S. WILEY & SON.

Business Movements.

INTERESTING REVIEW OF NURSERY CONDITIONS ABROAD.

ED. NATIONAL NURSERYMAN:

The writer returned from Europe a few days ago, and you will be pleased to note that he read the NATIONAL NURSERYMAN while in France. One of the nurserymen there had received it.

Stock in Boskoop is looking good, and full list of stock will be available at moderate prices. Oudenbosch Nurseries have their usual supply although Acer Schwedleri and Norway Maples are very scarce, especially in large sizes—most other stock will be in abundance and prices will be about the same as last season.

In France, the crop of fruit stock is looking promising, although the seeds of Myrobolans have not germinated well, but there will be sufficient to go around and prices will not be so high as last season. Apples and pears were being transplanted while I was there and Mahalebs and Mazzards were well above the ground and will soon be past the danger point.

Prices will be lower than last season on seedlings and about the same on transplanted stock. We will have, of our own growing, about 14,000,000 French stocks to offer in America this season.

New York. J. MCHUTCHISON, of MCHUTCHISON & CO.

OREGON FRUIT GROWERS.

A company has been organized at Eugene, Oregon, for the purpose of growing fruit and operating a fruit plantation. The company is capitalized at $20,000, and the area purchased is 300 acres. Cherries, apples, pears and walnuts will be the principal fruits cultivated.

A NEW TREE GAUGE.

The Alabama Nursery Company is the author of a new tree gauge. This fills the requirements of being accurate, compact, indestructible and easily read. It is made of cold rolled steel and is accurate within the limit of one-hundredth of an inch. It reads in terms of millimeters and sixteenths. Those who are interested in a device of this kind should correspond with Herbert S. Chase of the Alabama Nursery Company.

AMONG THE GROWERS.

Cottage Garden Nurseries, at Queens, L. I., have been adding to their greenhouse establishment during the past year. One large house 46 x 300 feet has been recently completed, and this followed another one 22 x 140 feet. The houses were built by Lord & Burnham.

In the outdoor department, additions have been made to the collection of rhododendrons and kalmias.

DAVIS COUNTY NURSERIES EXHIBITIONS AT BENCH SHOW IN SALT LAKE CITY.

At a recent exhibition in Salt Lake City, the Davis County Nurseries, of Roy, Utah, were prominent exhibitors. This nursery propagates greyhounds as well as nursery stock, and were successful in pulling off some of the leading prizes offered in that class. The show was a very extensive one, there being about 250 entries, in which dogs valued at prices ranging from $1,000 to $2,500 competed. The judge was Mr. Mortimer of New York City.

NEW EXPERIMENT STATION FOR ONTARIO.

The government of the Province of Ontario has purchased and established a new fruit and vegetable station in the Niagara district. It has appropriated $15,000 for the ensuing year to cover salaries and expenses. The government has not yet secured a director for the station, but is now on the look-out for a suitable man.

The Pacific Fruit World reports that South African nurserymen find that peach stock is the only satisfactory stock for peaches and that unlike California nurserymen, apricots and plums are not used at all for peaches.

Note and Comment.

Orleans County, New York, made a fine record as an apple shipping region for the winter of 1906-7. There were 750,000 barrels of apples packed in Orleans County last year. The improvement in grade of the fruit was marked and a distinct advance over that of previous years.

DAMAGE FROM SPRAYING.

A California orange grower has filed an action in the superior court against three members of the San Bernardino County Horticultural Commission, to recover damages caused orange trees by the use of chemicals employed to kill scale. Commissioners in that county have authority to enter the premises of fruit growers and spray scale-infested trees. This was done in this instance and as a result many of the oranges fell from the trees, and others were considerably injured. Suit is brought for $1500 to cover the cost of the damages. This will raise an interesting question.

FROST INJURY.

Despatches in the early part of May continue to corroborate the injuries recorded by the earlier reports regarding the frost damage to fruit regions in the Southwest. From Arkansas, Colorado, Mississippi, Georgia, reports of severe injury continue to filter through. Unquestionably the fruit crop is greatly diminished. Western New York from the Niagara River along Lake Ontario seems to be in fairly good condition and barring difficulties which may arise between now and harvesting time the promise of a satisfactory harvest is good.

SEEDLESS COCOANUTS.

We have seedless grapes, currants, apples, plums, and now a member of the British Department of Agriculture in Guiana reports a seedless cocoanut. Unlike seedlessness in other fruits the quality is not desired in cocoanuts, for when the hard rind representing the true seed coat of the cocoanut is removed, the receptacle which holds the edible part is taken away, and the fruit loses its value. This seedlessness is said to be due to sterility of the blossom of the cocoanut, and growers of this tree endeavor to distinguish between the staminate and the fertile flowered types. We are not likely to have a seedless cocoanut company formed to exploit this freak.

SPENCER SEEDLESS APPLE.

An interesting feature of Prof. Fletcher's address (before Canadian Fruit Growers) were some comments on the Spencer Seedless apple. Recently the professor visited the home of this fruit, and reported it to be nothing more than a fake. The apple, according to the professor, is below medium in size, poor in color, and not pleasing in shape, coarse in texture and in quality, below that of Ben Davis; in fact, its only value is its keeping quality. It is not seedless, at least two thirds of the apples have seeds of more or less development. The worst feature of this novelty, however, is the fact that it has a core, and a tough one. It is the core of the apple, and not the seeds, that bother the housewife and the canner. "The Spencer Seedless apple," said the professor, "is a horticultural gold brick—there is nothing in it."—*Canadian Horticulturist.*

DIPPING NURSERY STOCK.

An Oregon writer, in a late issue of the *Rural New Yorker*, claims that he has had good success in dipping nursery stock in lime-sulfur wash. He points out, however, that the stock must be well ripened and that the mixture must be cool. He does not state whether the roots are immersed as well as the tops, but on general principles we would recommend dipping only the tops, unless the roots are infested with aphis or crown gall.

Several members of the staff of the American Horticultural Distributing Company of Martinsburg, W. Va., will attend the convention at Detroit. They are deeply interested in the resolutions to be offered in reference to soluble oils. We call attention to their attractive advertisement in this issue.

ELBERTA.

"She has started on her Northward pilgrimage, our fair Elberta—Horticultural queen of the South.

"The sun and dew of the spring and the marginal summer months have seeped into her dainty veins. The winds and storms have given her sweetness and strength. The great artist, nature, has painted her delicate cheeks from a palette of ochre and gold.

"No Watteau shepherdess that ever adorned the exquisite vases which kings kept on their chateau shelves, no peasant beauty of old Lorraine, grown brown in the heat of the harvest fields, has surpassed her mellow-tinted charms.

"She goes as the South's own Hebe to the fruitless latitude further north, conveying succulent and saccharine welcome which only the South can afford. She is dowered as only a daughter of Georgia is dowered, partaking of every kindly element which this chosen land can give.

"She is the loveliest handmaid of commerce. She returns with the wealth which people in climates less favored are glad to pour in her lap. She becomes a generous medium of exchange, unsoiled of the vulgar touch which belongs to the till.

"Georgia is proud of her radiant daughter. We send her gladly on her annual embassy of grace and charm, as a type of our maidens of flesh and blood. We know that none of the ladies at the royal courts where she will reside, can outrival her wonderful winsomeness.

"Sun-kissed and perfect, the Juno of fruits is sent with a God-speed to meet the warm welcome reserved for her alone."—*Exchange.*

THE PROPER THING FOR THE BOY WHO INTENDS TO BE A FARMER.

It is pre-eminently the proper thing for the boy who intends to be a farmer to attend an agricultural college. Farming is an art and agriculture a science, and those who would achieve success as farmers cannot know too much about either. To this end it not only is the proper thing but the essential thing for the farm boy to attend an agricultural college until he graduates or as long as circumstances will permit. While there are many financially successful farmers who have never seen such an institution it must not be overlooked that technical education fits for a twofold success which these men cannot attain; it enables them to make farming profitable and derive happiness and genuine satisfaction from their intelligent works. True education does not unduly magnify the importance of pecuniary prosperity; it places high value on the culture, the intrinsic refinement and the moral elevation which result from well directed scholastic training. How to live is of more importance to know than how to accumulate a fortune. He who has learned this art hath a fortune though he is penniless. Agricultural courses qualify students to succeed according to the broadest and deepest meaning of the word.—*Breeders' Gazette.*

HIS BRAND.

The man from the "Circle bar" ranch listened with apathy to the New Englander's account of the choice entertainments to be enjoyed in his native city.

"We have everything that's really worth money out our way, I guess," he said, indifferently. "Why, on January 12th we had the world-renowned bell-ringers; January 20th, Hal Brown, the greatest cornetist in the world; and January 31st, grand production of William Shakespeare's 'Lewis the Cross Eye.' I tell you that was great!"

"What did you say was the name of the play?" asked the New Englander.

"Here, see for yourself," said the man from the ranch, and he passed out a program headed, "Grand production of Louis XI."—From *The Youth's Companion.*

WANTED.

Experienced working nursery foreman, must be thoroughly capable in both fruit and ornamental line; also a good propagator. Name references, also salary wanted.

THE SCHROEDER-SON NURSERY CO.,
LAFAYETTE, COLO.

The National Nurseryman

PUBLISHED MONTHLY BY

THE NATIONAL NURSERYMAN PUBLISHING CO., Inc.

205 Cox Building, Rochester, N. Y.

PRESIDENT, ... THOMAS B. MEEHAN
VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., JUNE, 1907.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Orlando Harrison, Berlin, Md. ; vice-president, J. W. Hill, Des Moines, Ia. ; secretary, Geo. C. Seager, Rochester, N. Y., treasurer, C. L. Yates, Rochester, N. Y.

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Inspection—R. C. Berckmans, Peter Youngers, Prof. John Craig.
Program—Judge Eugene Stark, Louisiana, Mo.; Chas. J. Brown, Rochester, N. Y.; Herbert S. Chase, Huntsville, Ala.
Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derry, N. H.; H. D. Simpson, Vincennes, Ind.
Exhibits—Thos. Meehan, Dreshertown, Pa.; H. P. Kelsey, Salem, Mass ; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.
Horticulture—Chas. J. Maloy, Rochester, N. Y.; Chas. T. Smith, Concord, Ga.
Arrangements—Chas. A. Ilgenfritz, Monroe, Mich.; Chas. Greening, Monroe, Mich.; Geo. S. Josselyn, Fredonia, N. Y.; Nelson Bogue, Batavia, N. Y.; John B. Morey, Dansville, N. Y.
Editing Report—J. Horace McFarland, Harrisburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.: secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN — President, A. Willis, Ottawa, Kansas; vice president, George Marshall, Arlington, Neb.; secretary, E. J. Holman, Leavenworth, Kansas.

SOUTHERN NURSERYMEN'S ASSOCIATION—President John A Young, Greensboro, N. C.; vice president, C. N. Griffing, Jacksonville, Fla.; secretary-treasurer, Chas. T. Smith, Concord, Ga. The next meeting will be held in Richmond, Va. August, 1907.

OKLAHOMA ASSOCIATION OF NURSERYMEN—President, J. A. Lopeman; vice-president, J. P. Taylor; secretary and treasurer, C. E. Garee.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice president, B. L. Adams, Bonham, Texas; secretary treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, F. W. Power, Chico, Cal.; secretary treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

FROSTS IN THE SOUTHWEST.

Up to the first week in April the season in Arkansas, Georgia, and Alabama appeared to be fully two weeks in advance of the normal condition; but the cold wave of the first week in April gave fruit such a backset, that by the time strawberries developed they were very little, if any, in advance of the usual period. Advices from Arkansas show a fair crop of strawberries. The early crop has been reduced in Tennessee from twenty to forty per cent. Truck crops were injured in Louisiana materially, while peach prospects were blighted in Georgia. The unseasonable cold continued late into May. In New York growth was at least two weeks behind its schedule at the middle of the month. Frosts occurred as late as the 12th, and fruit buds in the Empire State were hurt as late as that period —not unprecedented, but at least unusual. The peach crop of the country will be light. Prices ought to range high.

PEACH GROWING IN TEXAS.

The development of the fruit interests in eastern Texas during the past ten years has been almost without parallel in any State in the Union. The character of the soil, the climate and its influence on the ripening of the fruit, together with the progressiveness of the people, have all conspired to produce a very rapid growth of the industry. In the region tributary to Tyler great areas have been set out. This is also one of the leading truck-growing sections of the State.

During the past few weeks rather disturbing rumors have drifted eastward in regard to the condition of the trees after the somewhat abnormally open winter which has visited the region. Complaints are rife that the buds are not behaving in a natural manner, and some of the prophets go to the length of stating that hundreds of thousands of peach trees are dead or dying. The truth of this cannot be verified at the present moment. At any rate, the peach planter in Texas is brought face to face with the fact that the country is not the exclusive region of the angel of good fortune, and that failure is possible in the Lone Star State as well as elsewhere. But the Texans are progressive and optimistic, and a momentary failure is soon forgotten in the effort to repair the injury.

A STATE NURSERY IN VERMONT.

The legislature of the State of Vermont has made a new departure in passing a bill providing an appropriation for the establishment and maintenance of a nursery by the State experiment station, at Burlington, for the growth, cultivation and sale of forest tree seedlings. These seedlings are to be grown by the experiment station and sold to land owners in Vermont at actual cost, or as near that sum as the experiment station can estimate. This is an entirely new move, and while it is expected to promote forest tree growth and wood lot planting in the State, seems rather curious in many aspects. The experiment station is offering a list of seedlings this spring. The prices asked for

three to four-year white pine, five to eight inches, is $12 per thousand. White pine native seedlings four to eight inches, taken directly from the woods, $3 per thousand. Black locust four to six inches, $1.75 per thousand. It is hoped that this movement will stimulate the care and extension of the farmer's wood lot and the growing of trees that have some economic value; but it is a question how far the State is justified in entering the field of the nurseryman and competing with him in his legitimate business.

INTEREST IN FORESTRY.

The rapidity with which the great primeval forests of the country are being removed is hardly appreciated even by those who have the forest interests of the country at heart. The men who are exploiting the timber lands merely as money-making enterprises have no interest in this phase of the question. It is fortunate, however, that the government of the United States is exercising a liberal and far-seeing policy in regard to the regulation of its wooded lands. It is also gratifying to note that from the educational standpoint more and more attention is being given to this important subject so fundamentally related to the prosperity of the country.

We note that the University of Toronto has recently added a college of forestry, and has called Dr. Bernhard Fernow, former director of the New York State College of Forestry, to the deanship. It is suggestive, also, to note that the legislature of North Dakota has appropriated $25,000 for a new building for the North Dakota School of Forestry. Massachusetts has recently appointed a State forester. Michigan, Iowa and Minnesota have departments of forestry in connection with their educational institutions, so that forest propaganda is being promoted. The need of this is emphasized when one visits the great pine regions of the South and notes the wholesale destruction of forest growth in connection with the turpentine industry and wasteful lumbering methods.

PEAR BLIGHT IN CALIFORNIA.

This disease has been on the rampage in pear orchards in California for several years and threatens at the present time to annihilate the business of pear-growing. For the past two years officials of the Bureau of Plant Industry, from Washington, have been co-operating with officials of the State Department of Agriculture of California in an effort to stamp out the disease by showing California growers its true character and the best means of preventing it. Demonstration experiments in controlling the disease have been instituted in several parts of the State, and these have been successful in proportion as the instructions of the officers in charge have been followed. It has been difficult to arouse the growers to an understanding of the true condition of affairs, to make them realize that this disease could only be eradicated by concerted effort. A single infested area will nullify the work in all that region, and no matter how thorough one man's eradication efforts may be, if his neighbor is careless the whole effort is spoiled.

Those understanding the position thoroughly in California have attempted to secure an appropriation for the continuation of the work under State supervision. We understand the bill passed the legislature, but was vetoed by the governor. The whole matter now stands where it was when the agitation commenced. There is no organized machinery for carrying on the work, and although growers are better informed in regard to the nature of the disease and methods of checking it, unless there are leaders, it is probable that it will be carried on in a very ineffective and unsuccessful manner. On the whole, the outlook for pear-growing in California at the present moment, if we are to judge by the comments from growers in the State, and the press of the State generally, is most discouraging.

THE PRIVATE GARDENER'S RAKE-OFF.

We do not belong to the class which cries out that the present age is more corrupt than any which preceded it; that business methods are rotten; that public and private servants are absolutely unreliable. On the contrary, our age is better in many respects than any which the world has seen. So far, however, as business ethics are concerned, it has not reached the millennium.

We suppose that one of the difficulties is that every man "is out for the dollar," and too frequently, when a man has patronage of any kind to dispense, he feels that something more than the salary which belongs to his office is due him—in other words, that the mere dispensing of the patronage must be paid for by the persons who secure it. Out of this view many corrupt practices have grown up. The rebate system in transportation, in purchasing, is but a form of it, while the direct commission to the purchasing agent is the most outspoken type. The unfortunate part of it is, that many sellers have come to look upon the commission to the purchasing agent as a part of the deal. Either the purchaser or the seller must stand the commission, or it may be divided between them. In the long run the purchaser pays the commission, but in all events the practice is fundamentally and morally wrong.

How much of this prevails in the transactions of business between nurserymen and agents of estates, parks, cemeteries, and other public utilities, we are unable to say. The main point is that in the interests of clean business practice nurserymen should frown it down. Like all shady customs it may pay for a time, but in the long run it is bound to reflect upon the firm catering to it, and may eventually react very injuriously. Therefore, apart from all considerations of right or wrong, as a business principle, in the same way that dishonesty may be looked upon, it will not pay. The question of this type of graft as related to the nursery business is one which it is very difficult to discuss, either in convention or in the columns of the press; but it is none the less a legitimate subject for earnest consideration. The trade newspaper should not be expected to lead in a campaign of this kind. It may, however, with propriety, point out the evil.

ORLANDO HARRISON,
President.

J. W. HILL,
First Vice-President.

GEO. C. SEAGER,
Secretary.

CHARLES L. YATES.
Treasurer.

ASSOCIATION MATTERS.

THE DETROIT PROGRAM.

There is a great difference in the innate quality and character of programs. There are those which present a very attractive appearance, but when analyzed carefully do not show up satisfactorily. Again, there are programs which are simply arranged by the Committee without much reference to the persons who are to contribute the different items, and these are often full of disappointments. A member of the committee of this year points out that the Detroit program is a "live one" in every respect. All persons whose names appear on it have signified their intention of being present and discharging the item which is recorded against them. There is nothing "cut and dried," as Mr. Herbert Chase says, but everything has been arranged with a view of getting *live information* from particular men, and putting no one on without his full consent and direct promise to be there and contribute his part. We are glad to draw attention to this characteristic, and to remind nurserymen again that the special features of the program will be valuable to everyone, and should more than repay all expense of time and financial outlay that attending the meeting may incur.

MR. ALBERTSON'S APPEAL.

Special representative Albertson has recently mailed a circular letter to all nurserymen urging in strong terms the advisability of obtaining membership in the American Association of Nurserymen. The circular points out the many advantages accruing to members of the organization, draws special attention to the work of the transportation committees, and the benefits arising therefrom, and urges attendance at the Detroit meeting. The circular is timely and convincing, and should do much to increase the attendance at the convention.

ECONOMIC ENTOMOLOGIST AND UNIFORM INSPECTION LAWS.

One of the important topics which will come up for discussion at the Detroit meeting is this question of uniform inspection laws and allied questions. The subject has been ventilated from time to time in the columns of this journal, and all members of the Association have had an opportunity of thinking the matter over and formulating opinions. A committee of the Economic Entomologists' Association will meet with the nurserymen at Detroit and discuss the matter, when it is hoped that some definite line of action will be decided upon. The entomologists and State nursery inspectors are just as anxious as the nurserymen to reach a common ground, and it is hoped that every person interested directly or indirectly will approach this difficult problem with an open mind, and a desire to lay aside personal considerations for the good of the nursery interests as a whole.

An important meeting of the Economic Entomologists' Association was held at Lansing, Michigan, on May 29-30, a report of which will be forthcoming at Detroit.

F. H STANNARD,
Member Executive Committee, of F. H Stannard & Co., Ottawa, Kans.

EMERY ALBERTSON,
Chairman Executive Committee, of Albertson & Hobbs, Bridgeport, Ind.

J. H. DAYTON,
Member Executive Committee, Storrs & Harrison Co., Painesville, Ohio.

Our Book Table.

"The Pecan and its Culture." H. Harold Hume, publishers American Fruit and Nut Journal, Petersburg, Va. 8¼″ x 5½″. 159 pages, illustrated. Price, $1.00.

The great interest in pecan growing and nut culture generally places this book before the public at a very opportune moment. The author, Prof. H. Harold Hume, for a number of years botanist and horticulturist of the Florida Experiment Station, later state horticulturist in North Carolina, and at present secretary and manager of the Glen St. Mary Nurseries, of Florida, is a man though young in years, specially well qualified to present the merits of the pecan in an unbiased and at the same time comprehensive manner. The volume is divided into six parts: the first discusses the range and botany of the pecan; the second, the varieties which are clearly described; the third takes in the propagation and the cultivation, broadly the orchard management of the pecan; the fourth part discusses the harvesting and marketing of the nuts, while the fifth gives a clear dissertation on the diseases and insects of this valuable tree, and the sixth closes with an outline of the uses of the pecan and the literature which the student may find upon the subject.

This book is particularly valuable at the present time in that it describes the varieties, giving their synonyms, so that the planter may obtain an accurate idea of the good and strong points of each of these much advertised sorts. The chapter on propagation which includes the latest knowledge upon the subject is also very valuable. We have pleasure in commending this work to the nurseryman and the planter. It may be obtained through this office for one dollar.

REMOVAL NOTICE.

L. J. Redding, formerly of Decatur, Nebraska, has notified the NATIONAL NURSERYMAN that he has moved his place of business. In the future all correspondence should be addressed to Flagler, Colo., to insure its prompt delivery.

CHANGE IN CHICO NURSERY COMPANY.

F. W. Power of the Chico Nursery Company has sold out of this firm and will make his home in Oregon in the future. The new owners of the Chico Company are F. X. Gouillard, E. Wightman and Edward Harlan.

Legislation.

IOWA.

There has recently been introduced into the Legislature of Iowa a bill which makes it unlawful to bring into the state trees, plants, vines, or buds unless accompanied with a certificate of inspection by the state entomologist of Iowa, or by another inspector whose work he has approved.

SOUTH DAKOTA'S INSPECTION LAWS.

South Dakota's new nursery law requires every company, individual, or firm conducting a nursery business in that state to file a bond of $5,000 and pay a license of $10 with an accompanying small fee for each agent. The bill also provides that when trees are sold under contract, the place where each plant is grown must be specifically stated. This looks like a large order, and almost enough to put some men out of business.

Obituary.

ARTHUR BRYANT.

At Princeton, on May 13th, Arthur Bryant, of the nursery firm of Arthur Bryant & Son, died suddenly of neuralgia of the heart. The firm of Arthur Bryant and Son was established at Princeton, Illionis, by the father of deceased in 1845. As the son grew up he took an active part in the management of the business, and in 1857 was admitted to partnership, which continued until 1875. These Princeton nurseries have therefore had a continuous career for over sixty years. The firm is widely known throughout the middle and Northwest. Mr. Bryant has occupied a prominent position in the horticulture of the state. He was one of the early members of the American Association of Nurserymen, and has always been closely connected with the horticulture of Illinois. He has acted as president and vice-president of the Northern Illinois Horticultural Society, and in various official capacities of the state society for twenty-five or thirty years. Mr. Bryant was a nephew of William Cullen Bryant, the noted litterateur.

The business will be conducted by his son, who was associated with him and resides in Princeton. He leaves seven children, four sons and three daughters. The horticultural councils of Illinois and the Association of American Nurserymen will miss the quiet genial personality of Arthur Bryant.

PROGRAM AMERICAN ASSOCIATION OF NURSERYMEN.

HOTEL CADILLAC, DETROIT, MICHIGAN, JUNE 12, 13, 14, 1907.

JUNE 12TH, 9:30 O'CLOCK A. M.

Calling to Order—
President Orlando Harrison, Maryland.

Welcome to Michigan—
Charles A. Illgenfritz, Michigan.

Response—
Charles T. Smith, Georgia.

Welcome to Detroit—
Mayor Wm. H. Thompson.

Response—
Stanley H. Watson, Texas.

President's Annual Address—
Orlando Harrison, Maryland.

Report of Standing Committees—

Transportation, Uniform Inspection,
Tariff, National Council of Horticulture,
Legislation, Arrangements,
Ways and Means, Publicity,
Editing Report.

Report of Secretary.

Report of Treasurer.

Report of Special Representative—
E. Albertson, Indiana.

Selection of State Vice-Presidents.

JUNE 12TH, 1:30 O'CLOCK P. M.

Preparing Nursery Land—

R. G. Chase, The R. G. Chase Co., Geneva, N. Y.
C. C. Mayhew, Texas Nursery Co., Sherman, Texas.
John Siebanthaler, Dayton, Ohio.

Cultivating Nursery Stock—

G. N. Hobbs, Albertson & Hobbs, Bridgeport, Indiana.
J. F. Donaldson, The Donaldson Co., Warsaw, Kentucky.
Geo. Marshall, Marshall Bros., Arlington, Nebraska.

Growing and Grading Apple Seedlings and Apple Trees—

F. W. Watson, F. W. Watson & Co., Topeka, Kansas.
E S. Welch, Mt. Arbor Nurseries, Shenandoah, Iowa.
R. J. Bagby, New Haven Nurseries, New Haven, Missouri.

Growing Peach—

J. C. Hale, Tennessee Wholesale Nurseries, Winchester, Tennessee.
W. T. Hood, W. T. Hood & Co., Richmond, Virginia.
F. D. Green, The L. Green & Son Co., Perry, Ohio.

Meeting of Nurserymen's Mutual Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 12TH, 8:00 O'CLOCK P. M.

Nurseries of the United States. (Illustrated.)—
Prof. John Craig, Cornell University, Ithaca, N. Y.

JUNE 13TH, 9:30 O'CLOCK A. M.

Growing, Grading and Storing Grape vines—

E. H. Pratt, T. S. Hubbard & Co., Fredonia, N. Y.
Eugene Willets, North Collins.

Growing Ornamentals—

W. H. Wyman, Bay State Nurseries, North Arlington, Md.
R. C. Berckmans, P. J. Berckmans Co., Augusta, Ga.
Geo. C. Perkins, Jackson & Perkins Co., Newark, N. Y.

Growing Cherry—

W. F. Heikes, Huntsville Wholesale Nursery, Huntsville, Ala.
J. W. Gaines, McNary & Gaines, Zenia, Ohio.
Harry D. Simpson, H. N. Simpson & Sons, Vincennes, Ind.

Growing Small Fruits—

W. N. Scarff, New Carlisle, Ohio.
N. E. Chandler, Elmhurst Nursery, Argentine, Kans.
C. A. D. Baldwin, Bridgeman, Mich.

Spraying Nursery Stock—

J. H. Hale, South Glastonbury, Conn.
H. McDonald, Oregon Nursery Co., Salem, Oregon.

JUNE 13TH, 1:30 O'CLOCK P. M.

Storage of Nursery Stock—

D. S. Lake, Shenandoah Nurseries, Shenandoah, Iowa.
J. M. Underwood, Jewell Nursery Co., Lake City, Minn.
H. G Bryant, Davenport Nurseries, Davenport, Iowa.

How Can Nurserymen Prevent Apple Crown-Gall and Hairy-Root?

Prof. G. C. Hedgecock, U. S. Department Agriculture, St. Louis, Mo.

Marketing Nursery Stock—

Charles E. Greening, Greening Bros. Co., Monroe, Mich.
C. J. Maloy, Ellwanger & Barry, Rochester, N. Y.
Geo. H. Whiting, Whiting Nurseries, Yankton, So. Dakota.

Shall this Association Attempt to Establish Standard Sizes or Grades for Fruit Trees?

J. M. Pitkin, C. W. Stewart & Co., Newark, N. Y.
E. P. Bernardin, Parsons Wholesale Nurseries, Parsons, Kansas.
Abner Hoopes, Hoopes Bros. & Thomas, Westchester, Pa.

Meeting of American Nurserymen's Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 14TH, 9 O'CLOCK A. M.

Managing Salesmen—

J. W. Hill, Des Moines Nursery, Des Moines, Iowa.
C. R. Burr, Oakland Nurseries, Manchester, Conn.

Need of Co-operation Among Nurserymen—

J. H. Dayton, Storrs & Harrison Co., Painesville, Ohio.
H. S. Bird, West Michigan Nursery, Benton Harbor, Mich.

Shall we Change the Date of Annual Meeting?

Wm. Pitkin, Chase Bros. Co., Rochester, N. Y.
Peter Youngers, Youngers & Co., Geneva, Nebraska.

Report of Committee on Exhibits.

Report of Committee on Resolutions.

Election of Officers.

Selection of next place of meeting.

PIONEER FRUIT GROWING IN MICHIGAN.

Introduction of fruits: The fruit growing interests of Michigan began with the colonizing efforts of the French Canadian missionaries. These men introduced the apple and the pear with other orchard fruits, and some of the old seedling pear trees planted by the early missionaries still exist along the banks of the Detroit and other rivers of the state. Father Marquette with his self-sacrificing missionary co-workers were instrumental in introducing the tree fruits of Normandy in many sections, and are undoubtedly to be credited with having given Michigan some of her most desirable varieties of apples. Record has it that pear trees were brought from France as early as 1749 and planted along the Detroit river near the city of that name. Specimens of these exist to-day.

Horticultural Societies: The first horticultural society in the state was established in Detroit, in March, 1841; It was called the Detroit Horticultural Society, and John Winder was president, John C. Holmes, vice-president, Howard Webster and John Lumsen, secretaries, with Thomas Hall, treasurer. This society continued active until 1853, when it was succeeded by the Michigan Nurserymen and Fruit Growers' Association, organized at Jonesville, on September 9. In 1857, this second society was succeeded by the Michigan State Horticultural Society. This organization was short-lived also. In 1870 the State Pomological Society was organized at Grand Rapids. This society exists at the present time under the name of the Michigan State Horticultural Society.

Among the names of those who have been associated with fruit growing in Michigan in the early days are: J. P. Thompson, T. T. Lyon, S. L. Fuller, Benj. Hathaway, C. J. Monroe, Charles W. Garfield, Charles A. Ilgenfritz and many others.

The first law attempting to control the peach yellows was formulated in Michigan by the late T. T. Lyon in 1870. The progress of fruit growing in Michigan has been rapid and successful. The injury which severe cold at an unusual period has wrought to the orchards of the state during the past season has been severe, but orchardists and nurserymen are meeting the situation in a hopeful and self-reliant spirit and there is no doubt that replanting and orchard extension will go on even more rapidly in the future than in the past.

LEADING MICHIGAN NURSERYMEN.

American Nursery Co., Kalamazoo.
Milo Ames, 1218 Weadock Ave., Saginaw.
C. W. Asman, Port Huron.
O. A. E. Baldwin, Bridgeman.
J. N. Biglow, Bangor.
L. G. Braggs & Co., Kalamazoo.
J. A. Briscoe, Prop., Highland Park.
A. T. Brown, Beaverton.
D. M. Brown, Grand Rapids.
T. D. Buchanan, Specialty small fruits and peaches, guaranteed true to name. Pontiac, R. F. D., No. 3.
S. L. Callahan, Okemos.
Central Michigan Nur. Co., Kalamazoo.
John T. Clark, Clinton.
Clinton Falls Nur. Co., Owatonna.
R. J. Coryell, Birmingham
Cutler & Downing, Benton Harbor. Box 1104.
S. B. Davis, Jackson.
Geo. W. Dean, Shelbyville.
Gilbert L. Dressel, Frankfort.
Enos W. Dunham & Co., Stevensville.
W. W. Essig & Co., Detroit.
E. Ferrand & Sons, 379 Vinewood, Ave., Detroit.
Flansburgh & Potter Co., Leslie. Specialty small fruit plants. Established 1891.
E. W. Goodell, Mayville.
Grand Rapids, Nursery Co., Monroe St., Grand Rapids.
The Greening Bros., Nur. Co., Monroe.
A. Hamilton & Sons, Bangor.
Alex. Hamilton & Co., Kent City.
F. Hamilton, Northville.
G. H. Havekost, Monroe.
E. Hawley & Son, Hart.
Geo. A. Hawley, Hart.
H. J. Hunter, 364 McGraw Ave., Detroit.
I. E. Ilgenfritz Sons' Co , Monroe. Specialty peach, St. pear etc.
C. A. Ilgenfritz, Monroe. Specialty, high grade nursery stock.
Irving Jaquay & Co., Buchanan.
James Jeffry, Kalamazoo.
Chas. Keller, Woodmere.
W. F. Knapp, Monroe.
David Knight & Son, Sawyer.
Gus Knach, Woodmere.
Lake Shore Nur. Co., St. Joseph.
Lamson & Rood, Covert.
Lenawee Nurseries, C. F. Gustin, Box 510, Adrian, Mich. Specialty peach trees. Wholesale and retail.
Wm. S. Linton, Saginaw.
Chas. A Maxson, Kalamazoo.
C. L. McCormick, Monroe.
Merrifield & Allen, Fremont.
C. C. Nash, Three Rivers.
Frank Nelson, Paw Paw.
J. A. Nelson & Son, Paw Paw.
Oregon Nur. Co., Detroit.
E. L. Parmenter, Menominee.
Paw Paw Valley Nur. Co., Colonia.
Mrs. A. W. Peck, Traverse City.
Prudential Nursery Co., Kalamazoo.
V. H. Putney, Honor.
L. B. Rice, Port Huron.
W. R. Roach Co. Inc., Hart.
A. H. Rogers, Monroe. Box 745.
Nathan Smith & Son, Adrian.
Geo. H. Souter, Holland.
Spielman Bros., Adrian. General line of nursery stock. Established 1881.
F. J. Stover, Traverse City.
S. Taplin, Detroit.
Howard Thomas & Son, Grand Rapids.
W. J. Watterson & Sons, Ada.
D. S. Webb & Co., St. Joseph.
A. R. Weston & Co., Bridgman.
West Michigan Nur. Co., Benton Harbor.
C. E. Whitten, Nursery, Bridgman. Specialties strawberry and raspberry plants. Established 1890.
Wildemere Gardens, J. A. Briscoe, Prop., Highland Park, Mich. General nursery and ornamental gardening business. Established 1895.
Ralph Wise, Plainwell.
Wolverine Nur. Co., Williamston.
The Wolverine Cooperative Nur. Co. Ltd., Paw Paw. Fruits and Ornamentals wholesale and retail. C. E. Prater, Mgr.
F. L. Wright, Stockbridge.
L. I. C. Young, Montgomery.

Doings of Societies.

AMERICAN PEONY SOCIETY.

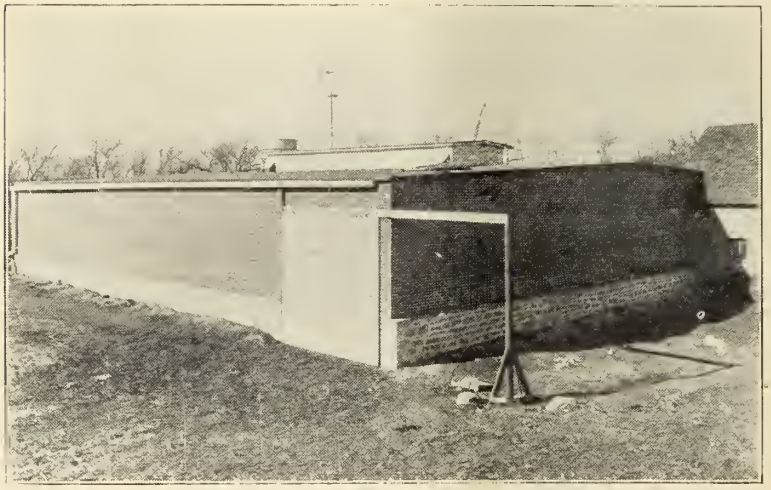
The American Peony Society is to meet at Cornell University, Ithaca, N. Y., June 17 and 18. The test-grounds of the society are located there and it is expected that a large collection of blooms from these trial plots will be on view at that time. The grounds are under the joint direction of the horticultural department of Cornell and the committee on nomenclature of the peony society. The meeting will be held in the new college of agriculture, and all persons interested in peony culture are invited to attend. The secretary of the society is Mr. A. H. Fewkes, Newton Highlands, Mass. Exhibits should be forwarded to the Department of Horticulture, College of Agriculture, Cornell University, Ithaca, N. Y.

EAST TEXAS FRUIT GROWERS ORGANIZE SOCIETY.

On the 15th of April, representatives of the fruit and truck interests of East Texas principally along the line of the Houston East and West Texas Railway, and the Texas and New Orleans Railway, organized a society under the name of the Central East Texas Fruit and Truck Growers' Association. The annual spring meeting will be held in April and the autumn reunion in September of each year. Officers were elected as follows: President, George M. Weaver, Timpson; Vice-President, J. A. Pirtle, Nacogdoches; Secretary and Treasurer, J. F. Davis, Lufkin.

THE WINFIELD NURSERIES.

OWNED BY COOPER AND MONCRIEF, OF WINFIELD, KANSAS.



New Brick Storage Building. Winfield Nurseries.

It is very interesting, indeed, to note how certain phases of the nursery business have become emphasized in particular parts of the country. For a number of years the Mississippi valley region and the States immediately west of the Missouri river have become noted as forest tree seedling and fruit stock producing regions. The rich prairie soils of the west now produce the great mass of the fruit stocks of the country. During the era when the timber-claim act was in force a great impetus was given to the growing of forest tree seedlings. This period established the business in that section, and the nurserymen of the country who want apple stocks, cherry stocks, and special lines of forest tree seedlings, turn their eyes to the plains of Kansas, Nebraska and Iowa.

Among the firms which have made a permanent place for themselves in the great nursery business of the Middle West is the organization established by Messrs. J. L. Cooper and J. Moncrief, at Winfield, Kansas, under the name of the Winfield Nurseries. Although of comparatively recent origin, having been established in 1894, the business has grown in true western fashion, with great rapidity, until at the present time there has developed out of the retail plant of 1894 a well-equipped tree-growing establishment, with its broad acres of nursery stock, its substantial storage buildings, and its ample shipping facilities. Our illustration shows the type of storage house built of brick and stone used by this firm. It is constructed on the best principles with regard to the exclusion of cold, and the most approved form of ventilation, giving excellent facilities for handling stock during the close season. The firm is advantageously situated in regard to shipping facilities, for it is on the line of the Southern Kansas Railway, the Atchison, Topeka & Santa Fé and Missouri Pacific railways.

SPECIALTIES.

This is a day and age of specialties, and this firm has made a point of associating themselves with brands of nursery stock peculiar in quality to their own surroundings. They have for a number of years specialized in the growing of Mahaleb cherry stocks, and although a few years ago there were many who doubted the possibility of competing with European growers in the production of these stocks, the Winfield Nurseries have demonstrated beyond controversy the possibility of placing upon the market a product equal to that furnished by the foreign growers. The illustration accompanying this article, showing different grades of the Mahaleb stock as grown by the Winfield Nurseries, is the best proof we can offer in support of these statements.

Another leader is the hardy catalpa, C. *speciosa*. Great interest is manifested, and properly, in the growing of this valuable timber tree. Railways are interested in it by reason of its value as a cross-tie timber. As fence-post timber its durability is unsurpassed. The quality of the wood permits it to be used in many of the industries, and finally its rapid growth enables a man to harvest his own crop within eight or ten years after planting the seedlings. The Winfield Nurseries have made a business of securing seed of the true hardy catalpa and grow each year millions of small trees of this valuable forest product.

In regard to the opinion of cherry specialists relative to the value of the Mahaleb stocks, the following state-

Over one million pure Catalpa Speciosia grown by Winfield Nurseries.

5-8 M. M. 4-5 M. M. 2-4 M. M. 1-2 M. M.

MAHALEB STOCKS.
Grown by Winfield Nurseries, Winfield, Kas.

ments from prominent cherry growers of the Middle West are sure to carry conviction.

(1) "In regard to the Mahaleb stocks which we purchased of you in the spring of 1904—they were planted by us for a test as to which were really the best stocks to us, American grown or foreign grown—in the fall of 1905 we found that our American stocks gave us by far the heaviest and most robust trees, giving us fully one-third of a one-year-old cherry, caliper three-quarters and up, and standing in height from four and a half to six feet. We also have quite a number of three-quarter trees in the imported stocks, but only a small per cent., most of them catching the eleven-sixteenth grade. This fall, 1906, the trees being two years old, we found nothing on the American stocks falling below three-quarter grade, and the root system cannot be better."

(2) Another correspondent says: "We planted some Kansas Mahaleb three years ago which produced better one-year cherries than imported stocks on same ground. Last spring we planted a lot from you which have done very well. They were graded extra well and came in first class condition, and were all that we could desire. These have made a splendid growth, and the buds have taken well, and we expect a fine block of one-year cherry from them. We trust that you will grade the 200,000 we have coming from you this winter equally as well, as we like a good strong grade. With best wishes for your success, we remain," etc.

While cherries and catalpas are used as leaders, the nursery carries a general line of stock and conducts a wholesale as well as retail business. In the retail line one of their ideals is to secure buds and scions from the best individuals of each variety of fruit propagated. They make a point of securing propagating stock from the best and most productive types of the varieties grown. There is no doubt that this, in theory and practice, is most commendable, and that it will in the long run redound to the benefit of the purchaser.

Of the personnel of the company we find the best evidence of the character of the men in the way in which they are held as men of integrity and business ability in their own community. While the nursery business is their principal life work yet both of these young men are associated with other important enterprises of considerable

Bunch of Early Harvest Blackberry Plants Propagated at Winfield Nurseries.

financial magnitude in the West. Mr. Cooper has a claim on a fine lot of real estate in the city of Winfield, and is extensively interested in orange land in Florida. Mr. Moncrief has fruit interests amounting to many thou and dollars in Oklahoma and Colorado. In the latter State he is planting large areas to Elberta and the Champion peach. While the men, therefore, are young, and the business is just gaining a healthy impetus, there is every promise of rapid and substantial growth. We shall look for these men to stand among the leaders in the nursery business of the West in the years to come.

Correspondence.

Commendation from President Harrison: "I have just received a copy of the May issue of the NATIONAL NURSERYMAN. You are to be congratulated on securing so many responses from the vice-presidents and other prominent members connected with our official organization. The association matters which you have published in this issue are certainly a credit to your paper, and as an officer, I wish to thank you personally for the interest you are taking."

ORLANDO HARRISON.

Judge Stark: "Let me congratulate you on the space and quality of matter you have given to association matters and program affairs in your May issue. If interest is not stirred up no one can say that the NATIONAL NURSERYMAN has failed to do its part. Let me correct a mis-print in your outline of the program. In the last session it should read June 14, 9:30 A. M, instead of P. M.

Everything is looking bright for a brisk, snappy program. We have received acceptances from practically all persons who are to lead in discussions and to answer questions. Everything will move lively. There are to be no long tiresome addresses, but short, spicy ones. Joining you in the hope that everything will turn out as well as we now anticipate. Yours sincerely,

EUGENE W. STARK."

A PLEASANT APPRECIATION.

We have been enjoying the benefits of the NATIONAL NURSERYMAN since it began its career a number of years ago. We want to express to you our appreciation of the good we have received through it.

We look upon the NATIONAL NURSERYMAN as a great educator along the lines of horticulture and especially along lines pertaining particularly to the nursery business; in fact, it is invaluable.

No nurseryman of any note can afford to be without its assistance in keeping up with the times and enjoying the many lessons which it has for its readers. Also we consider the NATIONAL NURSERYMAN a great news paper, especially so far as the nurserymen craft is concerned. We have always felt that it is very profitable for association among the best talent that has made the nursery and horticulture trades.

We hope that you may continue your efficient work and that you may enjoy the highest success.

Sherman, Texas. JNO. S. KERR.

KENTUCKY.

EDITOR NATIONAL NURSERYMAN:

Our trade has been good this spring in ornamentals, evergreens, etc. Fruit trees we only grow in a very limited quantity now, so do not push the sale of fruit trees. We understand the demand all over the State has been good, and stocks of nearly everything cleaned up.

We were hampered some this spring by two floods in the Ohio Valley that prevented our shipping anything for nearly two weeks.

But on the whole we have had a good season's trade, in fact, all we could do. Wishing you much success.

Warsaw. THE DONALDSON CO.

PROSPERITY IN GEORGIA.

NATIONAL NURSERYMAN:

The spring trade with us has been larger than ever before, notwithstanding the unprecedented warm weather, which started many trees and shrubs into growth two to three weeks ahead of their usual time.

The demand has been good for a general line of Nursery Stock, but ornamentals with us have taken the lead. The demand for landscape work, both for private places and public institutions and municipalities, is largely on the increase, and we have many large contracts on hand in many sections of the South. This growing desire for landscape work is, we consider, indicative of a prosperous condition of the country.

Augusta. P. J. BERCKMANS CO.

W. A. ALLEN & SON, ROCHESTER, N. Y.

NATIONAL NURSERYMAN:

"The Woodbine Nursery, owned by W. A. Allen, Rochester, N. Y., will be known hereafter as W. A. Allen & Son, having formed a partnership with my oldest son, who has been with one of the largest nurseries in the United States, perfecting himself in the most up-to-date ways of doing the nursery business," writes the senior member of this thriving concern.

Success to the new company.—ED.

RECENT ENACTMENTS IN KANSAS.

The Kansas Legislature has passed a law creating an entomological commission composed of two state entomologists, and three other persons associated with the fruit growing interests. The "purpose of this commission is to suppress and eradicate San José scale and other dangerous insect pests and plant diseases, throughout the state of Kansas." The commission has authority to enter the premises of fruit growers and nurserymen, examine trees, order the treatment or destruction of the same as their judgment may dictate. It provides also for the annual inspection of nursery stock, and for the inspection of all nursery stock shipped into the state. The members of the commission are F. D. Coburn, secretary of the state board of agriculture, president; Fred Wellhouse, secretary of the state horticultural society, secretary; E. A. Popenoe, entomologist of the state agricultural college; S. J. Hunter, entomologist of the state university; and F. H. Stannard of Stannard & Co., Nurserymen, Ottawa, Kansas.

MAKING NATURE FIGHT THE INSECT FOES.

By Wilmon Newell.

Scientists are now realizing that the abundance of insect pests which the farmer of to-day has to battle with is due largely, if not entirely, to the upsetting of nature's laws.

Before man placed the woods and prairies under cultivation, excessive increase of any insect species was perhaps unknown, or at most very rare.

Nature has always provided forces which operate against each other, as it were; and with insects, as with other creatures, a balance between the numbers of different species has been maintained.

Modern methods of farming have often decreased the natural enemies of injurious insects, and in other cases have afforded conditions favoring the rapid multiplication of insects not formerly present in dangerous numbers.

The practical entomologist of to-day, while not discounting the value of poisons and sprays as implements of war against the six-footed host, recognizes that really satisfactory control is to be brought about by a partial or total restoration of the conditions under which nature formerly prevented the different species from becoming too numerous. The entomologist, accordingly, studies parasitic enemies and diseases which destroy the injurious insects, and oftentimes he is enabled to encourage the parasites to such an extent that they largely or entirely control the injurious forms.

An interesting bit of work of this character is at present being done by the State Crop Pest Commission of Louisiana. In the orange-growing parishes of the State one of the most destructive pests to the orange and lemon trees is the "white fly." This insect not only sucks the juices from the leaves, but is indirectly responsible for the "sooty mold" which chokes up the "breathing pores" of the leaves.

Over in Florida a disease called the "red-pink fungus" has for several years been attacking and killing the white flies. This beneficial fungus did not occur in Louisiana until in the spring of 1906, when the Crop Pest Commission sent to Florida for trees bearing the ripe spores, or seeds, of this fungus, and distributed these in orange groves in about a half dozen localities in Louisiana. The weather following this introduction was very dry, and the fungus "plantings" did not "take" except at Lake Charles. In an orange grove at the latter place the fungus is increasing rapidly, and on the trees where it is abundant more than ninety-five per cent. of the white fly larvæ on the trees were killed during the past winter.

Encouraged by this partial success, the entomologists of the commission are now "planting" the fungus in orange groves in Orleans and Jefferson Parishes; and the recent wet weather—which is favorable to the development of the fungus—is indicative of success. As r pidly as material from the groves already infected with the fungus can be secured, the commission will start this disease in other orange groves where the white fly is prevalent. The present outlook for the success of this experiment is very bright, and should it prove a success, this beneficial fungus will save the orange growers of the State alone many times all the money that has been expended by the commission in its various lines of work.

SOME NATIONAL NURSERYMAN NOTIONS.

The nursery crop represents the aristocrats of the plant kingdom.

The business of the nurseryman contains the elements which should develop nature's noblemen.

To sow, to plant, to nurture, to grow that which promotes culture and comfort, is indeed a worthy occupation.

The man who takes a pride in producing a good product, a variety true to name, need not feel ashamed of asking a good price.

The shadow cast by runty, badly-grown, wrongly-named trees finally falls upon the grower, though he may live a thousand miles away.

Some of the functions of the nursery trade paper are to encourage the beginner, assist the established, and chide the backslider.

That paper does most good which spends more time in advancing interest in plant and tree culture in general, than in attempting to convince the public that it is the only sheet worth looking at.

A few inches of advertising space in a reliable journal gives a firm standing in a community, an appearance of stability, and adds materially to the feeling that it is up to the members themselves to make good.

Conventions are not devices of the Evil One to kill time and spend money, but they are occasions for the gaining of inspiration, securing new ideas, making new friends, and the ripening of old friendships.

Catalogues Received.

James Veitch & Sons, Ltd., Chelsea, S. W. "Novelties for 1907," being an illustrated catalogue of shrubs and small plants.

Conrad Appel, Darmstadt, Germany. Seed catalogue for spring, 1907. Illustrated.

Niagara Gas Sprayer Co., Middleport, N. Y. Price list for 1907, of Niagara Gas Sprayer, fitting and repairs.

Huntsville Wholesale Nurseries, Huntsville, Ala. Bulletins Nos. 5 and 6 of surplus stock, April, 1907.

W. Van Kleef & Sons, Boskoop, Holland. Wholesale catalogue of nursery stock, fall, 1907, spring, 1908.

C. Betscher, Canal Dover, Ohio. Trade price list of bulbs and plants, 1907-8.

Southern Nursery Co., Winchester, Tenn. Descriptive catalogue of fruit and shade trees, vines, shrubs, roses, etc.

The Elm City Nursery Co., New Haven, Conn. Annual catalogue for 1907 with prices of deciduous trees, evergreens, shrubs, etc.

Shatemuc Nurseries, Barrytown, N. Y. "For the Garden Border," being a price list of herbaceous perennials, roses and ornamentals.

Arthur Cowee, Berlin, N. Y. Illustrated catalogue of "The Gladiolus."

Forest City Nurseries, Portland, Me. Wholesale trade list for 1907 of hardy evergreens, deciduous trees, shrubs, etc.

Huntsville Wholesale Nurseries, Huntsville, Ala. Bulletins Nos. 3 and 4 of surplus stock, March, 1907.

Manning's Monograph No. 2 on hardy rhododendrons, azaleas and mountain laurel, is much appreciated by plantsmen. This is a monograph in every sense of the word. An excellent bibliography of rhododendrons appears in the body of the article, under that title, and there follows a list of half hardy and wholly hardy varieties. The paragraphs on propagation and cultural requirements are excellent. This monograph represents a new type of catalogue, and from the educational standpoint, a high class production. It is to be warmly commended.

A DEPARTMENT OF USEFUL INFORMATION.

I. PARTICULAR METHODS BY WHICH VARIOUS FRUITS ARE MULTIPLIED.

Barberry,	Cuttings of mature wood ; seeds.
Orange,	Seeds : seedlings budded or grafted.
Figs,	Cuttings, either of soft or mature wood.
Mulberry,	Cuttings of mature wood. Some varieties are root-grafted and some are budded.
Olive,	Cuttings of mature or even old wood. Chips from the trunks of old trees are sometimes used.
Pomegranate,	Cuttings, layers and seeds.
Apple and Pear,	Seeds ; seedlings budded or grafted.
Peach and other stone-fruits,	Seeds ; seedlings budded. Peach trees are sold at one year from the bud, but other stone-fruit trees are planted when two or three years old.
Quince,	Cuttings, usually ; the cuttings often grafted.
Grape,	Cuttings of from one to three buds ; layers.
Currant and Gooseberry,	Cuttings.
Raspberries, red,	Suckers from the root ; root-cuttings.
Raspberries, black,	Layers from tips of canes ; root cuttings.
Blackberry,	Root-cuttings ; suckers from the root.
Dewberry,	Layers of tips of the canes ; root-cuttings.
Dwarf Juneberry,	Sprouts or suckers from the root.
Cranberry,	Layers or divisions.
Strawberry,	Runners ; tip-cuttings.

II. STOCKS USED FOR VARIOUS FRUITS.

Almond,	Peach, hard-shelled almond, plum.
Apple,	Common apple seedlings, Paradise and Doucin stocks, crab-apple and wild crab.
Apricot,	Apricot and peach in mild climates, and plum in severe ones. Marianna.
Cherry,	Mazzard stocks are preferred for standards Mahaleb stocks are used for dwarfing. The wild pin cherry (Prunus Pennsylvanica) is sometimes used as a stock in the northwest, on account of its hardiness. Seedlings of Morello cherries are also used there.
Medlar,	Hawthorn, medlar, quince.
Mulberry,	Seedlings of white and Russian Mulberry ; cuttings of Downing.
Orange,	Seedlings ; Otaheite orange, shaddock ; *Citrus trifoliata*, particularly for dwarfs.
Peach and Nectarine,	Peach ; Plum is often used when dwarfs are wanted, or when the peach must be grown in a too severe climate or upon heavy soil.
Pear,	Pear (seedlings of common pear and the Chinese type). Quince (rarely mountain ash- or thorn) for dwarfs. Apple temporarily.
Persimmon Japanese,	Native persimmon.
Plum,	Plum, myrobalan plum, peach ; Marianna.
Quince,	The finer varieties are sometimes grafted upon strong-growing kinds like the Angers. When cuttings are difficult to root, they are sometimes grafted upon apple roots, the foster-root being removed upon transplanting, if it does not fall away of itself.

III. WAXED STRING AND BANDAGE: GRAFTING WAXES.

Waxed Strings for Root-Grafting.—Into a kettle of melted wax, place balls of No. 18 knitting cotton. Turn the balls frequently, and in five minutes they will be thoroughly saturated, when they are dried and put away for future use.

This material is strong enough, and at the same time breaks so easily as not to injure the hands. Any of the resin and beeswax waxes may be used. When the string is used it should be warm enough to stick without tying.

Waxed Cloth.—Old calico or thin muslin is rolled on a stick and placed in melted wax. When saturated it is allowed to cool by being unrolled on a bench. It is then cut in strips to suit.

Waxed Binding Cord.—Take any convenient quantity of coarse worsted or wick cotton, roll into loose balls, and allow it to soak in boiling wax. This is found extremely useful for tying root grafts and buds.

LIQUID GRAFTING WAX.

Grafting Wax.

Resin,	1 lb.
Beef tallow,	1 oz.
Spirits of Turpentine,	6 fluid drachms.
Alcohol (95 per cent.),	14 fluid oz.

Melt the resin over a slow fire, then add the tallow ; when dissolved, allow to get lukewarm, and gradually add the turpentine little by little, and keep well stirred. While the solution is still warm mix in the alcohol in the same way. Apply thinly with a brush. The liquid will keep some considerable time if placed in well-corked bottles.

Wax for General Use.

Beeswax,	1 lb.
Turpentine,	1 lb.
Burgundy pitch,	½ lb.
Mutton suet,	¼ lb.

Melt the wax, pitch and suet together, remove from the fire, and while still boiling stir in the turpentine. When cool place in tins and use when required.

INK FOR ZINC LABELS.

Indelible Ink.—Take 1 part salammoniac, 1 part verdigris, ½ part lampblack, and 10 parts of water ; mix thoroughly together and keep in a glass-stoppered bottle ; shake before using ; write with a medium pointed steel pen. Another useful ink can be readily made by dissolving half a teaspoonful of sulphate of copper in an ordinary penny bottle of writing ink ; use with a quill pen.

SHADINGS FOR GREENHOUSES.

Shading.—Make 1 lb. of wheat flour into a thin paste with boiling water, to which add 1 lb. of Russian tallow, dissolve ½ lb. of powdered whiting in cold water, and thoroughly mix the two solutions together; add Brunswick green to give the desired shade of color. Apply warm when the sun is shining. Whitewash, to which buttermilk, salt, or size is added to make it adhere, may be used for temporary washes. Apply with a brush or spraying syringe. White lead and naphtha mixed to the consistency of thin cream forms the most endurable shading.

IV. SPRAY FORMULAS.

BORDEAUX MIXTURE.

Copper Sulphate	3 lbs.
Lime	4 lbs.
Water	40-50 gals.

AMMONIACAL COPPER CARBONATE.

Copper Carbonate	5 ozs.
Ammonia (26° Beaumé)	3 pints.
Water	45 gals.

COPPER SULPHATE SOLUTION.

Copper Sulphate	1 lb.
Water	15-25 gals.

LIME-SULFUR WASH.

Lime	15 lbs.
Sulfur	15 lbs.

Water sufficient to bring the boiled product up to 50 gallons.

HELLEBORE.

Fresh white hellebore	1 oz.
Water	3 gals.

KEROSENE EMULSION.

a.	Hard, soft or whale oil soap	½ lb.
	Boiling soft water	1 gal.
	Kerosene	2 gals.
b.	Kerosene	2 gals.
	Flour	2 lbs.

WHALE OIL SOAP.

Dissolve in hot water if wanted quickly. For use on dormant trees for San José scale dilute 2 pounds to 1 gallon of water; for summer use on scale or aphis 1 pound to 5 to 7 gallons water.

ARSENATE OF LEAD.

Arsenate of lead	2–3 lbs.
Water	40–50 gals.

HOW TO FUMIGATE.

The essentials for fumigating nursery stock with hydrocyanic acid gas are: (1) Chemicals; (2) a suitable vessel in which to mix them; and (3) an air-tight box or chamber to hold the stock while it is being treated.

CHEMICALS AND FORMULA.

The chemicals that are needed are: (1) Fused cyanide of potassium; (2) sulphuric acid; and (3) water. The cyanide should be guaranteed 98-99 per cent., while the best grade of sulphuric acid, having a specific gravity of at least 1.83, should be used. These chemicals may be purchased from local druggists or from wholesale dealers in druggists' supplies. Tap, well, or rain water, that is clean, may be used. In handling the chemicals, care should be exercised not to spill the acid upon the clothing or the person. The cyanide is a deadly poison, and should be carefully labelled and stored, when not in use, in a safe place to prevent accidents.

The following formula is recommended for use in fumigating clean, well-matured dormant stock. For each one hundred cubic feet of space in the room use:

Potassium cyanide	1 oz.
Sulphuric acid	2 ozs.
Water	4 ozs.

For combining the chemicals, one should use earthenware dishes or jars of about one gallon capacity. There should be one vessel for each pound of cyanide. If more than one jar is used, distribute them at even intervals in the room. Place in each jar the required amount of water, and then gently pour in the acid. When the nursery stock is in place and everything is ready for the final operation, drop in the cyanide which is contained in a paper bag. For the safety of the operator, each bag should be suspended by a string over the jar containing the liquids. The main supporting string may be operated from the outer door, so that all the bags may be lowered at the same time in their respective vessels. The door should then be closed, displaying a danger card. After thirty or forty minutes of fumigation, all doors and windows should be opened and the room should be ventilated for at least ten minutes before anyone enters. The gas is most deadly, and one should be very careful not to get a breath of it.

The room or box to be used for the treatment of stock should be air-tight. Provision should be made for quick and thorough ventilation. The fumigatorium should be in a convenient position, and should be located so that the escaping gas will not interfere with other operations of the nursery. The stock should be dry when fumigated.

V. TREE PLANTING INFORMATION.

To Set Out Squares: Reduce the desired content to square chains, and extract its square root, which will be the length of the required side.

The sides of an acre laid out in the form of a square will measure 316¼ links, or $208\frac{71}{100}$ feet, or $69\frac{87}{100}$ yards. In rough measurements 70 paces are allowed. With a little practice an ordinary-sized man can train himself to cover one yard at a stride.

To Set Out Rectangles: Having ascertained the desired area and length expressed in the same unit, divide the former by the latter. The quotient is the required breadth. For example, if 1 acre of ground or 10 square chains is 5 chains long it must be 2 chains wide.

To Set Out Triangles: The area and the base being given, divide the former by half the latter to obtain the required height. At any point on the base erect a perpendicular equal to the height obtained, the end of which will be the vertex of the triangle.

To Set Out an Equilateral Triangle: The area being given, multiply the square root of the area by 1.520. The product will be the length of the required side.

To Set Out Circles: The area being given, multiply the area by 7, divide the product by 22, and extract the square root of the quotient, which is the radius whereby the circle can be described on the ground.

VI. ON SOWING FOREST-TREE SEEDS.

Species of tree.	Month when Seeds are Ripe.	Quantity of Seeds.	Average Number of Seedlings to Expect	Manner of Sowing.	Depth of Sowing.
Oak	Nov.	1 bush.	7,000	18-in. rows.	1-1½ in.
Elm	May, June,	"	6,000	15-in. "	⅛ in.
Ash	Oct., Nov.	"	14,000	15-in. "	¼-½ in.
Beech	" "	"	11,000	15-in. "	½-¾ in.
Alder	" "	1 lb. (clean)	5,000	In beds.	⅛-¼ in.
Birch	Oct.	1 bu. (clean)	16,500	"	⅛ in.
Horse ches't	"	"	2,500	18 in. rows.	1½-2 in.
Sweet ches't		"	3 000	18-in. "	1½-2 in.
Norw'y maple	"	"	12,500	15-in. "	½-¾ in.
Sycamore	"	"	12,500	15-in. "	½-¾ in.
Walnut	"	"	5,000	18-in. "	1½-2 in.
Scots pine	Nov., Dec.	1 lb.	8,500	In beds.	⅛-¼ in.
Larch, Eup.	Nov.	"	2,500	"	⅛-¼ in.
Norw'y spruce	"	"	9,000	"	⅛-¼ in.
Silver fir	"	"	500	"	¼-½ in.
Pinaster	Imported.	"	650	"	½-¾ in.
Hawthorn	Nov.	1 bu. (clean)	16,500	"	¼-½ in.
Holly	"	"	17,500	"	¼-½ in.

VII. LIST OF TREES AND SHRUBS SUITABLE FOR PLANTING NEAR THE SEA COAST. T=TREE, S=SHRUB.

Alder, common (T).
Arbutus, unedo (S).
Ash, common (T).
Ash, mountain (T).
Beech, common (T).
Berberis, of sorts (S).
Box, of sorts (S).
Birch, common silver (T).
Broom (S).
Buddlea globosa (S).
Cotoneaster, of sorts (S).
Cypress Lawsoniana (T).
Cypress Macrocarpa (T).
Deutzia, of sorts (S).
Elder, of sorts (S).
Elm, English, Scotch (T).
Euonymus, of sorts (S).
Furze, double (S).
Garrya elliptica (S).
Guelder rose (S).
Holly, of sorts (S).
Hornbeam, common (T).
Hydrangea, of sorts (S).
Laburnum, English (T).
Laurel, common and Portugal (S).
Laurustinus (S).
Lycium europeum (S).
Maple, Norway (T).
Oak, evergreen, Turkey, (T).
Olearia Haastii (S).
Osmanthus ilicifolia (S).
Picea normanniana (T).
Picea pensapo (T).
Pinus austriaca, P. laricio, P. pinaster, P. radiata, P. sylvestris (T's).
Poplar, of sorts (T).
Privet, of sorts (S).
Ribes, of sorts (S).
Rhododendrons, of sorts (S).
Sycamore, common (T).
Sea buckthorn (S).
Snowberry (S).
Spiræa, of sorts (S).
Syringa, common (S).
Thorns, of sorts (T).
Thuyopsis borealis (T).
Veronicas (S).
Willow (T).
Weigelia, of sorts (S).
Yew, common (T).

VIII. ON TILLING THE SOIL.

The advantages and results of draining soils are:

1. Removes stagnant water.
2. Raises temperature of soil by admitting warm air and making it more productive.
3. Brings earlier harvest; fruits mature earlier.
4. Admits air into the soil for the preparation of plant food.
5. Improves the working qualities of the soil.
6. All manures act more readily, including lime.
7. Sweetens sour land, and changes organic acid to CO_2.
8. Changes FeO into Fe_2O_3 ferrous into ferric oxide.
9. Encourages heavy crops of good quality.
10. Climate is healthier and warmer.
11. The number of noxious insects in the soil is reduced.
12. Discourages the growth of obnoxious weeds.

WANTED: ONE OR TWO FIRST CLASS BUDDERS.
Good Wages.
CALIFORNIA NURSERY COMPANY,
NILES, CALIFORNIA.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PEACH SEED.

In going over our records of almost Fifty years in the Seed Trade, we find 1869, 1872 and 1891 were years of almost an entire failure in the Peach Crop, so much so that Baltimore, which usually packs millions of cases, did not put up a single case. Consequently Peach Seed that sold in previous years at $1.00 per bushel, readily found a market at $4.00 and $5.00 a bushel. From all we can learn so far, we find conditions far more serious than in years mentioned, predicting results equally as bad, therefore, in order to protect yourself against a Peach Seed famine, place at once your order for at least a portion of your fall planting. Reasonable prices and seed guaranteed sound.

W. W. WITTMAN & CO.

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We have for Fall Delivery, a Complete Line of Nursery Stock, all Illinois grown. Write us.

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"Our trees are stocky."

GRAFTED PECANS

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THE NUT NURSERY COMPANY,
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Dreer Specialties

HARDY PERENNIALS.—Most extensive assortment, all the popular standard varieties in immense quantities, large collection of rare and new varieties. Stock of proper size to give satisfactory returns the first season.

DECORATIVE GREENHOUSE PLANTS. Our leading specialty. A full assortment of Palms, Ferns, Aravcarias, Ficus, Pandanus, etc.

BULBOUS STOCK. Amaryllis, Tuberous Begonias, Caladiums, Dahlias, Glovinias, Gladiolus, Lilies, Tuberoses, Tigridias, etc.

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AQUATIC PLANTS. Water Lilies, Nelumbiums, Victorias, Boz and Aquarium Plants, the most complete assortment of hardy and tender varieties.

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Offer a complete general assortment of

NURSERY STOCK,

Large Stock of Fruit and Shade Trees,
Small Fruits, Roses, Ornamentals,
Forest Tree Seedlings, etc., etc.

SPECIALTY:
DEALERS' COMPLETE LIST OF WANTS.

Packing and other facilities unexcelled.
Please allow us to price your want list.

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THE BENJAMIN CHASE CO., Derry, N. H.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

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Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1907

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

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JOHN FRASER Proprietor,

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BOX STRAPS

Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

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One, Two and Three year Apple, Two-year Kieffer Pear, Two-year Sour Cherry, One year Peach, in car-load lots. A good assortment of Japan Plums, one year and Mariana Stocks. Ask for prices.

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Silver Maples and Carolina Poplars, 8 to 10 ft.

Choice stock and sure to give satisfaction. Price very low. F. O. B.

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FOR THE NURSERY TRADE.

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GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

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Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.

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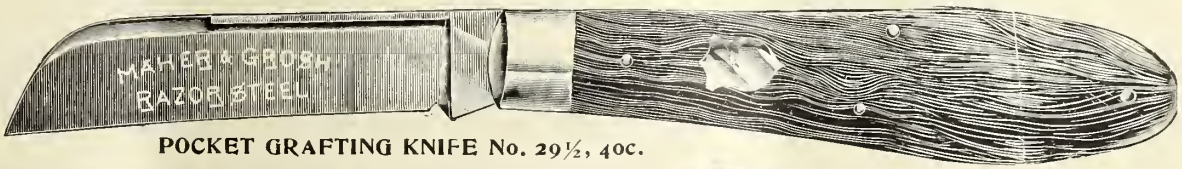

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The upper cut shows our medium grafting knife. Price, postpaid, 40c.: 6 for $2.00, postpaid.

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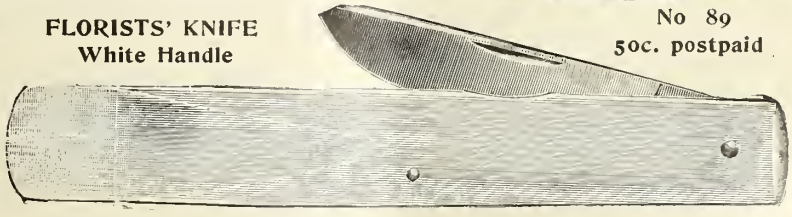

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OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Keiffer especially.

Natural Peach Pits, Crop 1906.

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Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

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IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

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Hybrid Perpetuals, Hybrid Teas, Etc.

Send Your Want List.

101 best sorts

ROSES

Strong Plants, True Labels, Quick Shipment.

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Hardy Climbers, Noisettes, Ramblers. Etc.

On own roots.

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2½ and 4 inch pots.

We Make a Specialty of the Manufacture of

Waterproof Shipping Tags and Tree Labels

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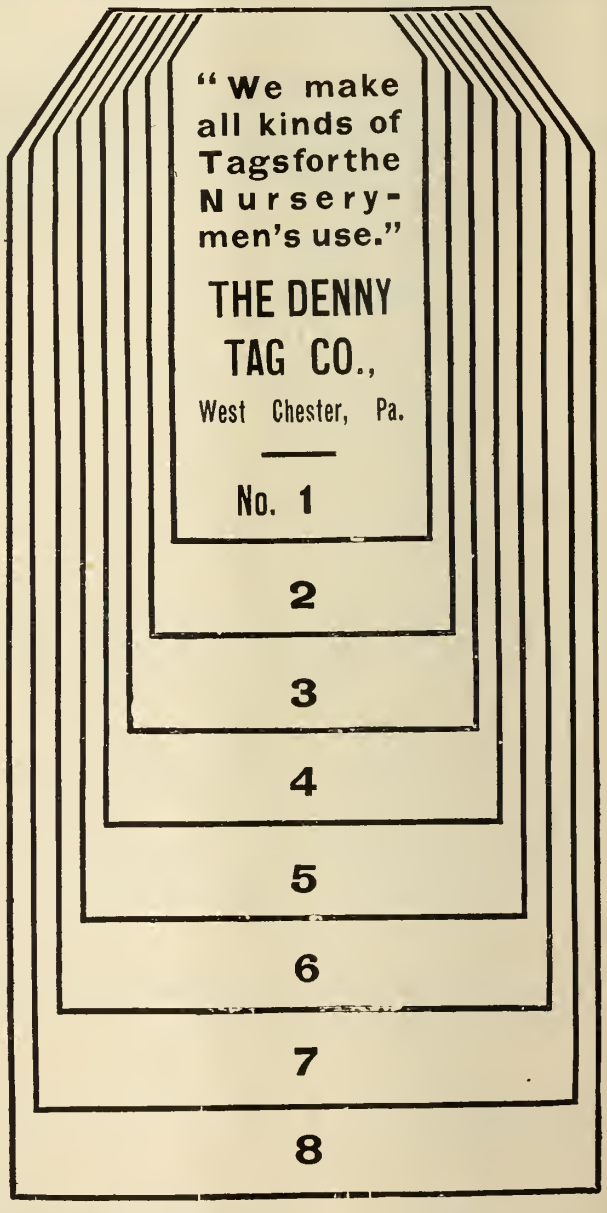

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9, 10 and 12 ft Young Trees; branched low.

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Fine. 15 inches to 5 feet. 1 and 2 yrs.

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5 to 7 feet.

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4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

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We are pleased to announce that we will have our usual supply of Cherry, One and Two year, that promise very fine.

While we grow Cherry in larger quantities than any other Stock, we also have a very complete line of the following:

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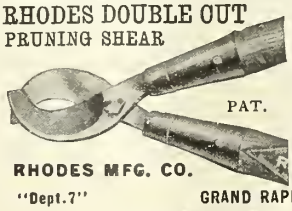

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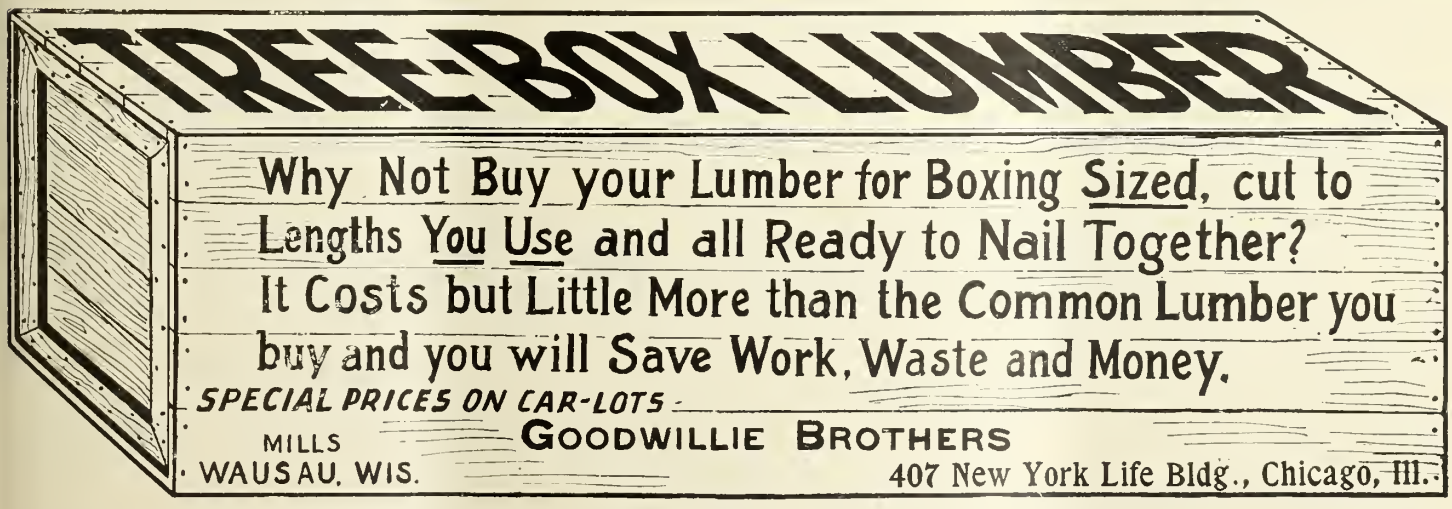

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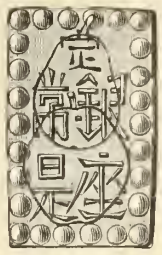

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We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

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Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.

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Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.

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Of all sizes from four to sixteen feet.

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J. H. SKINNER & CO., Proprietors,
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WE OFFER

Apple, Cherry, Peach, Plum, Apricot,

Keiffer and Garber Pear.

Forest Tree Seedlings,

Mahaleb Seedlings, Apple Seedlings,

Keiffer Pear Seedlings,

Shade Trees, Weeping Mulberry,

Bechtel's Double Flowering Crab,

Flowering Shrubs, Roses, Vines,

Grapes, Currants, Rhubarb, Asparagus.

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BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR

SPRING OF 1907

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY FEB. 1st.

Our cellars are WELL FILLED and SHIPMENTS can be made ANY DAY. Order early and have goods set aside for you.

WANT LISTS PRICED PROMPTLY

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

Specialties for Nurserymen.

THE SPEER GRAFTING MACHINE.

THOMAS BALERS. BOX CLAMPS.

BUD TRANSPLANTER

for Pecans, Walnuts, Chestnuts, Japan Plums, Figs, etc.

BRAGG TREE DIGGER.

BEST CUTAWAY DISC TOOLS

to put ground in shape for planting. Other good things for nurserymen, fruit growers or orchardists.

Write to

E. G. MENDENHALL, Gen'l Agt.

Box 396, Kinmundy, Ill.

REGRADING

has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

XENIA STAR NURSERIES,

XENIA, OHIO.

GROWERS FOR THE WHOLESALE TRADE,

Apples, Grafted, Apples, Budded,

St. Pears, Dwf. Pears,

Cherries, Plums.

McNARY & GAINES.

Winfield Nurseries

WILL BE IN THE MARKET
AS USUAL, WITH

Best Quality Mahaleb,
Black Locust,
Catalpa Speciosa,
and other Seedlings and
Fine Line of Budded Stocks.

WINFIELD NURSERIES,
Winfield, Kansas.

WANTED—Foreman to take charge of Ornamental Department. Must be experienced propagator of ornamental Trees, Shrubs and Evergreens. Steady employment; good pay. References required.

THE PHŒNIX NURSERY COMPANY,
Bloomington, Illinois.

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

IMPORT NURSERY STOCK

We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Pæonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

WANTED

Young man who has had practical experience in fruit tree nurseries. Must thoroughly understand budding and grafting. Regular wages $35.00 per month with found. During budding season, which commences about June 15th, and lasts until September 15th, $2.50 per day with found.

Address FANCHER CREEK NURSERIES, INC.,
FRESNO, CALIF.

W. FROMOW & SONS, Windlesham, England.

We have a great assortment (250 acres) of first-class general HARDY NURSERY STOCK, including a fine line of RHODODENDRON, Coniferous Evergreens, HYBRID and other ROSES; Manetti Rose stocks for budding or grafting, and the finest stock in existence of the true GOLDEN PRIVET. Also an immense stock of young stuff, well rooted, for Nurserymen's own planting. Let us appraise your wants for **Fall 1907**, or next spring delivery. Address our **American Agents**, also for latest trade-list,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING 1907,

a complete line of Fruit, Shade and Ornamental Trees, Shrubs, Herbaceous Plants, Seedlings, Maples, Ash, Catalpa Speciosa, Tulip, Poplar, Mulberry, Oaks, etc., 500,000 Black Locust in all grades. Shrubs, etc , for lining out. Special prices quoted upon application on American Elm, American Linden, Green, and White Ash, Tulip, Poplar, European Sycamore, American Sycamore, European White Ash, and a number of other trees from 6 to 14 feet. Black Locust, Norway Maple, Catalpa Speciosa and other tree seeds.

THE DONALDSON COMPANY,

WARSAW, KENTUCKY.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES, Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

P. OUWERKERK,

No. 216 Jane St., - - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

"Red Star" Raffia

STILL REDUCED

but up may go the price when this importation is sold. Every nurseryman knows that **"Red Star"** Raffia means guaranteed quality. Send for prices. Sample free.

THOMAS MEEHAN & SONS, Box T, Dreshertown, Pa.

GOOSSENS & HELLEMONS, OUDENBOSCH, HOLLAND.

(Formerly C. ESCHWEILER.)

Growers of Hardy Ornamentals, Forest and Avenue Trees, Conifers, Evergreens and Shrubs; also a fine line of assorted Seedlings, at reasonable cost; Supply only **A 1 QUALITY!** Address the American Agents:

August Rölker & Sons, New York, P. O. Box 752 or 31 Barclay Street.

PAINESVILLE NURSERIES

OFFER ONE OF THE LARGEST AND
MOST COMPLETE ASSORTMENTS OF

Nursery and Florists' Stock

in the United States, including Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines, and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

Field Grown Hardy Roses. Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

A Few of the Items We Have in Large Supply. **Special Prices on Early Orders.**

Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

53 Years. **1200 Acres.** **44 Greenhouses.**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO.

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue mailed **FREE** on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. Rochester, N. Y.

CLEMATIS

Our leading specialty; they are fine, healthy, acclimated, field-grown plants, two years old; they are better than the Holland-grown and cost less; the fact that we are now the largest Clematis-growers in the world, putting on the market annually over two hundred thousand Paniculata and large-flowering Clematis, is an indication that our plants and our prices are about right.

We grow ROSES, too, on own-roots and budded; AMPELOPSIS VEITCHII—100,000 of 'em this year—and have another fine block of those "J. & P." TREE HYDRANGEAS coming on.

Those wanting to buy now at profit-saving prices should write us; for early orders, we are offering inducements that are worth while; last year's early buyers saved something on Clematis and Tree Hydrangeas. Better write us now.

JACKSON & PERKINS CO.,
WHOLESALE NURSERYMEN,
Newark, New York.

The Geneva Nursery

Established in 1846

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII.
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.,
GENEVA, NEW YORK.

Let Us Give You Some Especially Low Prices

ON THE FOLLOWING FIRST CLASS STOCK.

LEMONS, AMERICAN WONDER,
FICUS ELASTICA,
KENTIA BELMOREANA,
KENTIA FORSTERIANA,
LATANIA BORBONICA,
GARDENIA FLORIDA,
GARDENIA VEITCHII (For forcing)
BIOTA AUREA NANA,
(BERKMANS' GOLDEN ARBOR VITAE.)

This year we have Ten Acres of This Popular Conifer.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. Over 450 Acres in Nurseries.
MENTION THIS AD.

When writing to Advertisers mention The National Nurseryman.

FOR *the many kindly remembrances, as well as for the collective resolution of sympathy, coming to me from the Detroit meeting of the American Association of Nurserymen, held in June, I extend my hearty thanks.*

These pleasant and most unexpected expressions make almost worth while the "game leg" which deprived me of the personal pleasure of the meeting.

"Business is business" used to be the excuse of the man who had a chance to "skin" you and was using it, but in these better days I find so much friendship and courtesy and pleasant feeling in all proper business relations that I think he was mistaken. There IS friendship in business!

Very thankfully,

J. Horace McFarland

We have heard from many nurserymen who appreciate the advantage of summer work on catalogues—an advantage in quality as well as in price. We can, however, look after more nursery catalogues of the selling kind in July and August, and we invite the wise men of trees who care to save money to write us.

Now is our photographic harvest season, in which we are adding daily more and better pictures to our collection, already well in excess of ten thousand unique subjects. Some remarkable effects are being obtained by careful previous planning, in connection with complete campaigns of publicity for nurserymen.

We join hands with The McFarland Publicity Service, for those who are proposing to sell trees and plants along original lines, in devising schemes and ideas which will work out the desired end. Ask about it. *Have you seen "The McFarland Message?"*

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

The Mount Pleasant Press

American Association of Nurserymen, Conservatories, Belle Isle Park, June 13, 1907.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XV. ROCHESTER, N. Y., JULY, 1907. No. 7.

ASSOCIATION MATTERS.

THIRTY-SECOND ANNUAL CONVENTION, DETROIT, JUNE 12, 13, 14, 1907.

J. W. HILL, DES MOINES, IA., PRESIDENT.

Monday evening, June eleventh, found a considerable delegation of nurserymen at the Hotel Cadillac. Tuesday, saw the number largely increased. Wednesday, Thursday and Friday witnessed probably the largest group of nurserymen ever assembled in convention. Had the sessions been attended by all who came to the meeting, the seating capacity of the hall would have been quite inadequate, but many, like "Papa Josselyn," attend for the purely social and business opportunities.

The weather was agreeable, rainy Thursday excepted. The hotel service was as good as could be expected ; the members were in good humor ; the committees had done their work well and affairs moved along with regularity and precision.

President Harrison demonstrated beyond question his ability to swing a gavel with resolution and vigor and great credit is due him for his persevering and consistent efforts to clear the program as outlined, before the hour of adjournment arrived.

STORY OF THE CONVENTION.

President Orlando Harrison called the meeting to order about 10 a. m. on Wednesday. Brief words of welcome were spoken by the efficient chairman of the local committee, Chas. A. Ilgenfritz of Monroe, on behalf of the State, and by the Comptroller of the city on behalf of Detroit.

The response was felicitously tendered by Chas. T. Smith, Concord, Ga. Then followed the President's address, which is so timely and suggestive that we reproduce a large part of it.

EXCURSIONS.

The weather was not agreeable on excursion day. Mr. Ilgenfritz, with the kind co-operation of the Parke Davis Company, had planned a boat ride to the Laboratories of this company and to Belle Isle for Thursday afternoon. Rain prevented it being carried through on time but about 3.30 p. m. some two hundred and fifty took steamer and after a pleasant sail were landed at the Parke Davis Co., where they were expeditiously guided through the extensive laboratories of this great concern. After making the rounds, punch and cigars were provided by the hosts. The visitors returned thanks through chairman Stark, again took steamer for Belle

Showing the way the sessions were attended.

The Reed Tree Stripper. A centre of attraction when "the wheels were going round."

Isle where they were met by Commissioner Breitmeyer of the Park Board. Carriages were provided and a pleasant drive of an hour or more through the Park followed. The party returned to the hotel about eight o'clock. A delightful feature of the trip was the "cracking" of a box of (Brother) Jonathan apples by editor Irvine of the *Fruit Grower*. The apples were in fine condition and disappeared in a jiffy. The nurserymen were also indebted to these enthusiastic admirers of Brother Jonathan—Messrs. Irvine and Campbell—for several boxes opened during the sessions of the convention.

Another Park excursion was engineered by Mr. Ilgenfritz on Friday afternoon. This was specially arranged for those who did not leave till the time of departure of the night trains.

ELECTION OF OFFICERS.

This interesting event excited very little discussion or comment. The ticket of the Vice-Presidents was unanimously elected. J. W. Hill succeeds Mr. Harrison as president; C. M. Hobbs, Ind., succeeds Mr. Hill as Vice-President; Messrs. Yates and Seager were re-elected Treasurer and Secretary respectively; Mr. E. M. Sherman, Charles City, Ia., H. B. Chase, Huntsville, Ala, were made members of the Executive Committee, with Mr. J. H. Dayton, of Painsville, Ohio.

VICE-PRESIDENTS, AMERICAN ASSOCIATION OF NURSERYMEN.

Alabama, Herbert Chase.
Arkansas, W. G. Vincenheller.
Colorado, A. M. Ferguson.
California, F. W. Power.
Connecticut, C. R. Burr.
Delaware, E. S. Collins.
Florida, R. C. Simpson.
Georgia, Chas. T. Smith.
Illinois, Guy A. Bryant.
Louisiana, E. M. Sherman.
Indiana, C. M. Hobbs.
Kansas, A. Willis.
Kentucky, L. E. Hillenmeyer.
Louisiana, A. K. Clingman.
Maryland, Chas. M. Peters.
Massachusetts, W. H. Wyman.
Michigan, C. A. Ilgenfritz.
Minnesota, Clarence Wedge.
Montana, D. J. Tighe.
Missouri, Frank Weber.
Nebraska, Geo. Marshall.
New Hampshire, John C. Chase.
New Jersey, Wm. Flemmer.
New York, Wm. Pitkin.
North Carolina, J. Van Lindley.
Ohio, J. W. McNary.
Oregon, M. McDonald.
Oklahoma, J. A. Lopeman.
Pennsylvania, Thos. B. Meehan.
South Dakota, Geo. H. Whitney.
Tennessee, E. W Chattin.
Texas. E. W. Kirkpatrick.
Utah, P. A. Dix.
Virginia, W. T. Hood.
West Virginia, B. T. Southern.
Wisconsin, R. J. Coe.

UNIFORM INSPECTION OF NURSERY STOCK.

The report of this sub-committee of the Committee on Legislation, presented by Professor Craig, recited the resolutions passed by the Association of Economic Entomologists and the Horticultural Inspectors. These resolutions, exclusively published in the NATIONAL NURSERYMAN, made essentially two recommendations: first, that all nursery stock imported into the country should be examined and quarantined if found infested with dangerous parasites; that this police work should be placed in the care of the Secretary of Agriculture. Second, that an attempt should be made to unify the methods which are in vogue in the inspecting of nurseries in the different states, and that this provision should also be placed in the hands of the Secretary of Agriculture for execution.

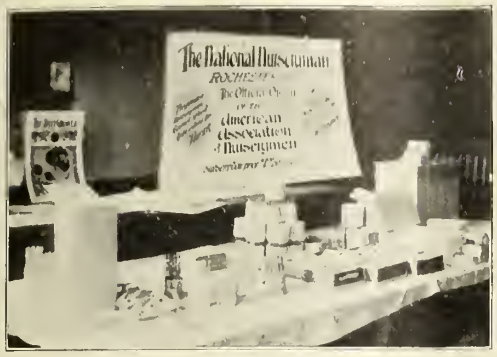
The Economic Entomologists were represented by Professor S. A. Forbes of Champaign, Ill., Professor Phillips of Virginia, and Professor R I. Smith of Georgia. These gentlemen expressed individually their deep interest in the effort to unify and standardize inspection laws and their desire to do all they could to further that worthy project.

The Association accepted the report of the sub-committee and appointed Mr. Orlando Harrison as special representative of the Association to co-operate with the Entomologists in pushing legislation in the line of the resolutions offered. A further resolution obligated the Association to pay the expenses of the delegates who would go to Washington in behalf of the measure. Thus another step has been taken in the progress of this important movement.

SPECIAL REPRESENTATIVE.

The Association decided to discontinue the office of special representative for the ensuing year. The work of Mr. Albertson has been greatly appreciated, but owing to the attitude of the railroads and also to the number of concessions already secured, it was felt that the regular committees on legislation and transportation might be expected to look after the interests of the Association for the coming year. It was also suggested by Mr. Pitkin of Rochester, that the interests of the Associations might be conserved satisfactorily by the employment of a professional agent furnished by one of the companies whose business it is to guard the interests of organizations of this kind. Mr. Albertson was accorded a very hearty vote of

A vista in the Exhibits Hall. Nursery supplies largely in evidence. American Horticultural Distributing Co., Martinsburg, W. Va.



In the periodical and lithographic room.
Chase Labels.

thanks for his efficient and unselfish efforts on behalf of the Association.

PLACE OF NEXT MEETING.

A large number of invitations were received from representatives of various cities who desired the presence of the members of this Association at their convention next year. There was a lively exchange of opinion and argument between the east and the west. Atlantic City, Boston, Put-in-Bay, Chicago and Milwaukee were all in the running, but Milwaukee finally captured the convention. This incident furnished the excitement of the meeting. Not even the election of officers brought in a larger attendance or keener attention on the part of the members. Late in the session on Friday morning there was an attempt to reconsider the place of meeting, which, however, was promptly voted down on the ground that it was taking unfair advantage of many members who were obliged to leave for their homes the preceding evening, so Milwaukee it is.

Another sample of the intelligent audience when Mr. Kirkpatrick was "going some" after the delightful Texas fashion.

To avoid the possibility of acrimonious discussion in future, a resolution was passed fixing the following arrangements in regard to place of meeting:—The entire country is divided into four sections. First section includes New England, New York, Pennsylvania, New Jersey, Ohio, Indiana, Illinois, Michigan and Wisconsin. Second section: Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Tennessee and Mississippi. Third section: Minnesota, Iowa, Missouri, Kansas, Nebraska, Dakotas, Montana, Idaho, Utah, Nevada, Wyoming and California. Fourth section: Arkansas, Louisiana, Oklahoma, Texas, New Mexico and Arizona.

The places of meeting are to be chosen consecutively from these sections.

THE ATTENDANCE.

As already stated this was exceptionally large. The middle west turned out well. The Pacific northwest was represented by Mr. McDonald of Salem, Oregon, and it goes without saying that the east was out in force. It is probable that more business was done at this convention than at most in the past. The apple seedling situation seemed to be in a comfortable condition from the standpoint of the men who had the stock. They were not in a hurry to make prices nor to book orders. Much business in the sale of general nursery stock was transacted.

PAPERS AND ADDRESSES.

The program committee is to be congratulated on the uniform manner in which those set down for definite subjects came to the front and worked off their obligations. The papers were short, pithy and so good that we will take occasion to run several of them in succeeding issues of the NATIONAL NURSERYMAN.

STANDARDIZING NURSERY STOCK.

Excellent reports were presented on this subject which are published elsewhere in this issue. The special committee appointed by President Harrison did not have an opportunity of considering the matter at length and with sufficient care to enable them to present a report. They asked for an extension of time, which was granted, and we may expect a report from Chairman Heikes on this subject next year.

THE EXHIBITS.

One of the most gratifying and at the same time most instructive features of the meeting were the two rooms devoted to exhibits. Chairman Meehan and his associates, Messrs. Kelsey and Bernardin, evidently worked hard with a good purpose. There were a fine lot of exhibits in the storeroom reserved for the purpose at short distance from the hotel. One of the commendable features was the display of nursery stock and live plants. New forms, such as the early blooming hardy hydrangea, dwarf roses and evergreens were exhibited in considerable quantity. The display of machinery was also gratifying in extent and variety.

The advertising and lithographic material was displayed in a room immediately adjoining the convention hall. Here the lithographers, label manufacturers and publishing houses had their exhibits of trade papers, photographs, illustrative material, and the like. Adjoining this we found our friend, Mr. White, president of "White's Class Advertis-

The excursionists landing at Belle Isle, being guided by Mr. Ilgenfritz and welcomed by Mr. Breitmeyer.

ing," who had a bewildering lay-out of attractive advertising goods.

REPRESENTATIVES OF OTHER SOCIETIES.

The American Rose Society was represented by Mr. E. G. Hill of Richmond Ind., who spoke on the purposes and work of this organization. The American Peony Society was represented by its president, Mr. C. Willis Ward of Long Island, N. Y. Mr. Ward outlined the history of the society and drew attention to the important work now in hand in the studying of the large variety of peonies on the trial grounds at Cornell Experiment Station. The annual Exhibition was held on the 27th and 28th of June at Cornell University.

RESOLUTIONS.

Be it resolved that we, the American Association of Nurserymen in convention assembled, do express our sincere sympathy with the families of the late Arthur Bryant, of Princeton, Ill., and L. J. Bragg, of Kalamazoo, Mich., both of whom have been active and efficient members of this organization for many years.

We would also extend our sympathy to our friend and coworker, J. Horace McFarland in his affliction, and most heartily wish him speedy recovery.

We feel also that this Association owes the out-going officers a vote of thanks for their painstaking efforts to make the meeting at Detroit a success, and we wish also to extend our thanks to Mr. Charles Ilgenfritz, the Parke-Davis Co., and the Park Commissioners of Detroit for the efforts they have made to make our stay here pleasant and profitable.

Committee:

E. M. SHERMAN,
E. W. KIRKPATRICK,
WM. H. MOON.

SECRETARY'S REPORT.

Summary 1906-1907.

RECEIPTS.

Membership fees for 1906 (at $3.00)	$ 270.00	
Membership fees for 1907 (at $5.00)	1835.00	$2105.00
Advertising in Badge Book		710.50
Telegraphic Codes		25.90
Extra Badges and Books		15.50
Extra Copies Proceedings		4.60
Exchange		6.30
		$2867.80

DISBURSEMENTS.

July 7, 1906, Check to C. L. Yates, Treasurer	$ 250.00
Oct. 29, 1906, " " " "	175.00
May 28, 1907, " " " "	2170.00
June 5, 1907, " " " "	250.40
Exchange	22.40
	$2867.80

The increase of receipts of 1907 over those of 1906 may be itemized as follows:

Membership fees	$656.00
Advertising	169.85
Extra Badges	2.50
Codes	19.15
Copies 1906 Proceedings	4.60
Total Increase	$853.51

Number of Membership Fees Paid,

June 6, 1905 to June 7, 1906, for membership, 1905-6	51	
" " 1906-7	449	
Total		500
June 8, 1906 to June 6, 1907, for membership, 1906-7	90	
" " 1907-8	367	
Total		457
Decrease		43

GEO. C. SEAGER, *Sec'y.*

TREASURER'S REPORT.

Your Treasurer submits his Annual Report from June 9th, 1906–June 10, 1907.

RECEIPTS.

To Cash on Hand		$2755.62
July 9th, 1906,	Geo. C. Seager, Sec'y	250.00
	Interest to June 31st, 1906	19.82
Oct. 30th,	Geo. C. Seager	175.00
May 29th, 1907,	Geo. C. Seager	2170.00
June 5th,	Geo. C. Seager	250.40
	Interest to Dec. 31st, 1906	37.56
		$5658.40

DISBURSEMENTS.

1906		
June 15th,	E. Albertson Ex. to St. Louis, C. Etc.,	$ 52.98
" 22nd,	W. C. Reed, Postage	10.00
	Jno. S. Kerr	35.00
	C. L. Yates, Salary and Postage	51.76
July 7th,	Whitehead & Hoag Co., Badges	24.45
	Geo. C. Seager, Salary	500.00
	Geo. C. Seager, Express Etc.	8.30
July 10th,	U. & Adv. Co., Printing B. B. Etc.	359.85
Sept. 19th.	John T. Palmer Co., Printing	3.25
	J. W. Hill, Postage Etc.	6.00
	S. W. Davis, Reporting Dallas Convention	50.00
July 10th,	Jno. D. Lyman, Expense to Dallas	84.30
Nov. 5th,	U. & Adv. Co., Printing Rept.	169.60
Nov. 26th,	J. W. Tucker, Letter Heads and Envelopes	5.55
Dec. 10th,	E. Albertson, R. R. Fare, Letter Book,	120.90
	Wm. Burford, 1M 4-page circulars	36.00
Dec. 17th,	C. L. Watrous, Expense to Baton Rouge	76.70
" 23rd,	E. Albertson, 6 mo. Salary	600.00
Feb. 13th,'07	Orlando Harrison Attending I. M. at N. Y.	17.88
	J. Craig, Attending Meeting at N. Y.	20.70
	R. Runyan and W. H. Moon,	6.65
	M. E. Wolf, Bond for Treasurer	18.75
Mar. 7th,	U. & Adv. Co., Env. Etc. for Sec'y	27.45
" 15th,	W. C. Reed Attending Meeting Fgt. Bureau	27.10
Apr. 12th,	Am. Ptg. House, 400 Letter Heads	3.30
" 29th,	Am. Ptg. House, Letter Heads	6.75
June 1st,	McGuire & Wood, Legal Advice	5.00
" 6th,	J. W. Tucker	12.85
		$2341.07

	$5658.40
	2341.07
	$3317.33

All of which is respectfully submitted,

C. L. YATES, *Treasurer.*

C. R. Burr of Manchester, Conn., announces an enlargement of home nursery stock by one young sapling; may it grow large and lusty.

PRESIDENT'S ADDRESS.

HON. ORLANDO HARRISON, BERLIN, MARYLAND.

Fellow nurserymen and members of the American Association of Nurserymen! After the cordial greetings we have just received, every nurseryman should feel at home in the city of Detroit. We are welcomed by our own statesman, a nurseryman, and by the Mayor's representative of this great thriving convention city of more than four hundred thousand inhabitants.

This beautiful city of the straits, one of the most charming of American municipalities, with its healthful surroundings, its wealth and high social culture, needs no extended praise at my hand.

RETROSPECTIVE.

The year past has been a notable one, and the whole country is at the flood tide of industrial development. Never before in our history have we seen conditions so prosperous. The word prosperous is putting it mild. Every branch of business seems to be flourishing—in a thriving condition. Our neighbors are making millions in the manufactures, men are leaving the farms for the city life. Our labor leaves the nursery and goes to the railroads and other industries which can and do pay more for their services. One can hardly name a business enterprise but what has been profitable.

OUR FINANCES.

When I accepted of the presidency last June, I was mindful of the fact that necessary funds should be provided for the expenses of the special representative appointed. Keeping this in view I have been careful to avoid any experimenting with our treasury, and I am pleased to state what you already know, that it has not been necessary to call on you for the additional guarantees of $3,000.00 so promptly provided for by our Ways and Means Committee.

RECOMMENDATIONS.

Seeing the condition that confronts us, as a body, permit me to make a few recommendations, which in my humble judgment will be a great benefit to the Association.

First: That we establish a claim department, and appoint for its guidance an advisory board, or the Executive Board may act as the advisory, for adjustment of all disputed claims between the nurserymen as well as with the railroad companies, express companies and others. A fee should be charged when claims are entered and a percentage charged when collected.

Second: I earnestly recommend that there should be a closer co-operation between the nurserymen of this country and their respective state experiment stations, in the testing of new varieties. We have in the experiment station an organization designed for the purpose of trying new kinds. We should see to it that a variety has a fair test, and that it is not disseminated until it has proven its value for some part of the country.

Would it not be a good plan for originators of new varieties to send trees under restriction to the Experiment Station for trial before they are generally distributed and offered to the trade.

PROMOTE BUSINESS.

Fellow nurserymen if we are to succeed, we must have a great demand for our product—the tree.

The planting of trees over the country is increasing, but not in proportion to the increase of population. The information contained in the Horticultural and Agricultural Press has been an advantage to all. Many sales have been made by tree agents after the fruit growers and farmers have learned through the press the pleasure and profit in growing fruit. It helps to create a demand. In fact any literature on fruit growing is a decided help to the nurserymen and growers alike. It seems to me that we are not attending to this in a systematic, business-like manner.

We, as nurserymen, should look after the young men who are graduated from the colleges, and turn their attention to the fruit industry of the country, and show them the advantages to be derived from an out-door life, and encourage them to adopt horticulture as a business.

Could we not, through the secretary's office, establish a bureau of information, for which young men with both the necessary scientific and practical training to plant and manage orchards could be brought into touch with the fruit growers who are in need of such help? It seems to me this would encourage tree planting, particularly in localities where men are deprived of going into the orchard business because of not having nor knowing where to get such educated help. We need such a bureau for the nurserymen's help, through which we could get competent foremen and assistants.

INSPECTION MATTERS.

It is with great pleasure we welcome the Committee of Economic Entomologists, sent here to confer with the nurserymen in order to improve present condition, governing the interstate shipments of nursery stock. It is earnestly hoped that some satisfactory means can be arranged in the near future whereby the existing troubles in regard to the interstate transportation of nursery stock may be mitigated to a large extent.

I understand that at the last meeting of the Association of Nursery Inspectors, a resolution was passed favoring federal control of the interstate transportation of nursery stock. This I consider a movement in the right direction, and would like a discussion on this important matter by the nurserymen at this meeting. A resolution should be passed expressing our views on the subject to be presented to the Secretary of Agriculture and the proper committee of Congress.

At the request of the Economic Entomologists, a committee of E. Albertson, Prof. Jno. Craig and myself, visited their meeting in New York City, Prof. Craig being a member of the Special Tag Committee. We tried to make it plain that the nurserymen would welcome anything to advance the general plant interests of the country, and would work in harmony with any policy looking to that end, an invitation was extended them to meet with us here. The Committee on Legislation has kept closely in touch with all matters pertaining to legislation.

It is only by thorough and active co-operation on the part of the nurserymen of the country, together with the entomologists and with the nursery inspectors that such measures can be taken which will prove of benefit to all concerns.

We should realize the importance of co-operation between the nurserymen and entomologists. I believe it is the proper solution of the question of uniform inspection and transportation laws, and I trust this meeting will be the means of cementing the interests of the nurserymen and the entomologists more closely together.

I should also recommend that a committee of nurserymen be appointed at this meeting to conduct an active campaign looking towards something definite.

ADVANCE THE PRICE OF STOCK.

My last and most important recommendation to you is, that we, as nurserymen, should increase the price of our trees and plants in proportion to the increased cost of labor and other necessities, for growing high grade stock.

There has been a demand for cheap trees, and the nurserymen in their endeavor to meet this demand, on the part of the planters, have endeavored to furnish a cheap tree. In this we have been in error, and my observation is, that the most progressive planters are demanding a higher grade of trees. This will cost the tree grower more money to produce, but will also advance the price of the stock; this tendency is encouraging, as the final result will be the production of better stock, which will command a higher price. Our business does not differ from others; there is more profit in high grade products than in low grade. I contend that it is imperative upon nurserymen to produce a higher grade nursery tree, for which an advance price will be paid, and the present is opportune for emphasizing that feature of our work.

Have the nurserymen prospered in proportion to the other lines of business; if not, whose fault is it? I claim a nurseryman is entitled to as full remuneration as a man in any profession, for no man has to work harder and put in longer hours.

Fellow nurserymen, there are many reasons why you cannot grow trees as cheaply as you did once. Are you determined to continue to sell at the same old price? I predict that greater care will be necessary to grow good stock, and more rigid inspection will be insisted on in the future. Are you preparing to meet these conditions?

Let the nurserymen stand together, let them have confidence and faith in each other. Let them know the cost of production and charge accordingly. Let them grow good stock. Study the needs on the planters, advise wisely; act conservatively, and above all so conduct their affairs as to bring credit and renown upon a business which is among the most honorable and pleasant open to intelligent men—that of the nurseryman.

FUMIGATION.

Another matter that should receive careful attention of this Association, is the criticism of planters relative to the fumigation of nursery stock. Many of the most observant tree planters object to having their trees fumigated, their experience being that dipping is the safest and most effective method, and they prefer to do the dipping themselves. Evidence of the benefit derived from the dipping is encouraging.

This is extremely important to nurserymen, for we know only too well that fumigation is costly, and requires extreme care. The laws of the several states respecting fumigation are stringent, and I might say exacting. The nurserymen have faithfully endeavored to meet their requirements, but the fumigation is objectionable and if other means can be employed that entails less expense, and is equally, or even more effective in controlling the insect pests, we should know it; so from the criticisms about fumigation and the results obtained by dipping, I feel it is a duty to bring the subject to your attention, for such discussion or action as in your judgment the importance of the matter may suggest.

THE PRESS.

The horticultural papers of the country are doing a great work for the nurserymen. They are the text-books for the protective fruit growers, and the nurserymen should get in a closer touch with the editors and show them just what we are trying to do for the fruit grower, that they may better understand what difficulties we encounter to grow a good, sound merchantable tree. It is through the press we learn of the successful peach orchards of the South, the apple orchards of the West, and the great opportunities that have been overlooked in the Northern, Eastern and New England States.

I contend that it is the duty of an editor to know something about the firm he is advertising in his columns, that when asked about them he can answer questions more intelligently. He should, if possible, visit the various nurseries with whom he is doing business, then he is in a position to help his customers. (That's what we are doing, Mr. President. Ed.) The nurserymen are the poorest advertisers of any great industry, and it is our own fault.

There is more real live, instructive, interesting advertising that can be gotten up, showing the many advantages the nursery interests are to a town, county or state, and the government than in any other business that can be named. Our whole life work is a creation of the germs of horticulture, and our experience is the guide to cultivation and the foundation of prosperity.

A true nurseryman is a public benefactor, and because I consider it one of the choicest professions, I would not change my occupation for any other; but I believe in order to attain the greatest success, we must learn to help others. What a small part of this country is utilized for fruit in proportion to its possibilities. I am sure there is not a nurseryman here who cannot point out our great opportunities for fruit growers. Their opportunities must be made known to the millions of city people who are anxious for a country home. If nurserymen will get closer to the editors of fruit and farm papers, inform them how we bend our energies to serve the fruit grower, and how certain enthusiastic, energetic fruit growers are succeeding, it will inspire others to do likewise.

THE AMERICAN CIVIC ASSOCIATION.

What a grand work the American Civic Association is doing. Their work is an advance agent for the nurserymen. Getting together, inspiring us with new life and vim, creating a new desire for new fruits and more attractive homes. If we could only induce every city and town to have a civic association it would be greatly to our interest.

DWARF TREES, VALUE OF SEEDLINGS AND STOCKS.

The value of dwarf trees should be brought to the attention of growers to be used as fillers, and it would mean the output of millions of trees, especially the small planters who have limited space, and might induce them to start in fruit growing.

We should learn the value of different kinds of fruit tree seedlings and select what is most hardy and likely to produce the best tree, both in form of growth and freedom from various insect pests, looking closer to the interests of the purchaser.

OUR COMMITTEES.

All committees have worked faithfully and unselfishly for the benefit of the association. I have spoken of the work of the Legislative Committee. A programme has been prepared by the Programme Committee with a view of focusing discussions upon some of the important points connected with nursery work. This committee has labored for twelve months and their work is commendable.

TRANSPORTATION.

The subject of transportation has been left with the committee and the special representative, with full authority to accomplish the best results, and their reports will inform you of what has been done. It is necessary for us to keep in close contact with the railroad officials. The present agitation against railroads, with more than four hundred state bills aiming a deadly blow at them, have had an influence. There has been a change. I have not found it hard to obtain a conference with the proper authorities. What we want, need and must have, is quicker movement of our trees and plants. I am creditably informed they are preparing for this movement. Many complaints are made against the express companies for goods lost or stolen, for which it is difficult to obtain satisfactory settlements.

TARIFF.

The Tariff Committee has ever been ready to look after our interests; nothing of any special interest has come to my attention requiring any change.

NATIONAL COUNCIL HORTICULTURE.

This I consider one of the most important committees, and should have the assistance of every nurseryman. It's a movement in the right direction, and the chairman will inform you of its benefits.

EXHIBITS.

The Committe on Exhibits has made a special effort to get exhibitors here, and have spent much valuable time, which should be appreciated, and I hope each one will avail himself of the opportunity of examining the exhibits.

ARRANGEMENTS.

Our Committee on Arrangements with the Executive Committee have had charge of the arrangements and have done excellent work.

PUBLICITY.

We are greatly indebted to the Publicity Committee in advertising this meeting in such a thorough manner, showing the greatest necessity of the nurserymen getting together at the same time.

Gentlemen, the meeting is now in your hands, and I am at your service to execute the programme and further the business of the association.

COMMITTEE ON CO-OPERATION WITH ENTOMOLOGISTS.

President Hill has appointed Capt. C. L. Watrous, Des Moines Ia., John Craig, Ithaca, N. Y., and Chas. T. Smith, Concord, Ga., as a special committee to meet with the official Entomological organizations during the year for the purpose of promoting harmony of interests and the general furtherance of matters of mutual importance. This in accordance with the report of the Committee on the President's Address. The committee will in the movement to unify inspection laws.

REPORT OF SPECIAL REPRESENTATIVE A. A. OF N.

EMORY ALBERTSON.

I regret that there is not as much to report this year in actual new benefits secured as there was last, though we have made what effort we could but have not met with the success in some cases we had hoped for, yet believe if the work is kept up still farther, favorable results will be secured.

After our return from Dallas last year, I met with the Western Classification Committee at Frankfort, Michigan, there having been an application filed to change reading of Item 40, page 85, Classification No. 39, to read "actual weight" instead of actual weight consignments not less than 100 lbs. but not having filed this or not knowing of it before the meeting I was not fully prepared to present same. However, I did the best I could, but failed to convince them that such change should be made, and think we are pretty well fixed as it is.

We found from reports from some of the members that in part of the territory covered by the Southern Classification they were not getting the benefit of the 16,000 lb. minimum and that it was adding quite a little to some of the freight bills. A general complaint was made to the officials of the offending roads, which had refused to be governed by the change in the Southern Classification, and Stark Brothers rendered especially valuable help, if not the main influence, which brought them into line by pressing the matter before the Interstate Commerce Commission so that January the 30th they adopted the classification of 16,000 minimum on 36 ft. cars, rates as per classification, except in some places where there was a commodity rate that was lower they allowed this to apply.

The Officials and Southern Committees having nothing before them for consideration bearing especially on the nursery business, I hardly thought it necessary to appear before them and was unable to leave home at the time unless it had been absolutely necessary. The last meeting of the Southern Committee was in Washington the 4th inst. but could learn of nothing of special interest to us to come before them. While we have not been represented before all of these committees, I think it would be to our interest to be there, but this year on account of health of family, etc., I have been unable to attend some I otherwise would.

March the 5th, Mr. Reed (being confined at home myself) met with the Trans-Continental Committee in Chicago to present our claims in behalf of adopting the Western Classification of minimum car weights in their territory, but sorry to say was not successful, but there is still hope, if the work is continued as it was with the other committees.

In April we had a petition before the official committee for change in classification of apple and black locust seed, but failed to gain its adoption.

It seems that this is a very unfavorable time to do much with the railroads, as they have at present rates more business than they can handle, and the Legislative agitation being so great and unfavorable they are not inclined to grant any concessions.

It is, however, a time when we should watch very carefully and protect our present classifications and, if possible, avoid any unfavorable changes.

In November, in company with Mr. Watrous, I attended the meeting of Nursery Inspectors and Entomologists at Baton Rouge, Louisiana, the results of which you have in Mr. Watrous's report.

In December, in company with our president and Prof. Craig, I attended the meeting of Economic Entomologists in New York—the benefits resulting from the meeting were the same as those from the Baton Rouge meeting and are given in their reports.

I have not had much to do with other legislative matters, or time to give them, except a hard fight of nearly two months in our own state to kill a bill introduced in our own Legislature providing for bonds and license from all nurserymen doing business in the state. By the hearty co-operation of Messrs. Henby, Simpson, Reed and other nurserymen, and most especially the help of Dr. Forbes of Illinois, and Prof. Burgess, of Massachusetts (then of Ohio) to whom we are greatly indebted, we succeeded in killing the bill and securing the passage of an inspection and certificate bill now our law.

There have been some very burdensome laws passed in some of the states, which might have been killed or modified if the proper action had been taken by the nurserymen in those states, assisted by the Association, but we had no reports of them and did not know of them until too late. The vice-president in each state should watch closely the bills introduced and report same to the Association so proper action could be taken.

Almost a constant correspondence has been kept up throughout the year on the various matters of interest—about 2,000 letters have been sent out in an effort to increase our membership. October 10th, '06, supplement No. 1 to our shippers' table was mailed to all members. This supplement refers particularly to import freight rates as well as giving some other facts which you should consider carefully. June 1st, supplement No. 2 was issued. This applies especially to express business, general special rates, rules, etc. If any of the members have not received this supplement, I will be glad to furnish same.

Our table and supplements should be revised and printed in *one table* at once, as there are some features that could be made plainer and a few corrections; and the Import table revised for this year, then future supplements issued as necessary.

I would now offer a few suggestions:

In future you should have some one to follow up this work who can give it all the time needed (which will leave him little time for anything else) I would recommend leaving out appointment of Transportation and Legislative Committees, leaving it with your special representative to choose and call on whoever, wherever and whenever, he might need for the special work to be done—the entire Association being his committee.

The laws of the different states should be summarized and included in the shippers' tables, or supplements revising as often as necessary.

Another matter is the arbitration of claims: This is one feature I have been thinking of for a year or more. I believe if there were the proper disinterested arbitrator, endorsed by the Association, to whom all contested or questionable claims could be referred by the railroads with the assurance that his verdict would be just or, if anything, we might say rather favorable to the railroads and that would protect them from being held up (as they certainly often are) it would in time be found a great help to both parties and secure much more prompt settlement of claims. Would it not be well to consider this carefully and take it up with the Association of Claim Agents, if there is such?

Again, I would like to revive the interest in Mutual Fire Insurance. This subject has been before us once or twice, and the last time I was one of the committee appointed to investigate it, but the railroad and other work coming up and taking so much time it was neglected and no report made. It seems to me it is now time for this to be taken up and I am confident something good can be worked out of it. Your special agent, assisted by some good members, might be able to report a feasible plan by another year.

I think this is enough for this time and that you will find there is an abundance of work to keep some one busy for the next year or more, and work worthy of your careful consideration.

I thank you one and all for the hearty support and co operation given me in the past year, and hope you are not disappointed in the work that has been done; and ask for my successor the same support, hoping he may be able to reap for you much larger benefits.

A large delegation of nurserymen ran over to Storrs & Harrison's and the Green nurseries from Detroit. They report an enjoyable time. Among the party were the Kansas and Nebraska men. Several of the down Easterners stopped on their way home also. The following went on to Rochester. B. E. Field and wife, Fremont, Nebr., C. C. Mayhew, Texas Nursery Co., Sherman, Texas, Marshall Bros., Arlington, Nebr.

NATIONAL NURSERYMAN:

We enclose $1.00 for the National Nurseryman another year. Let us have this month's copy as we do not want to miss a single copy of the best paper published for the tree-grower.

Truly,

ROTAN'S NURSERY CO.

REPORT OF COMMITTEE TO REPORT ON EXHIBITS.

We, your committee, appointed to examine the exhibits, beg leave to report as follows:

We find on exhibition the following:

FRUITS.

G. A. Marshall, Arlington, Neb., Windsor Chief Apple.

Texas Nursery Co., Sherman, Tex., Early Wheeler Peach in prominence, also Dewey, Greensboro, Arp Beauty, Mamie Ross, Elberta, and Burbank Plum.

B. W. Ford, Madisonville, Tex, Exhibit of Texas Fruits and Vegetables in variety.

Spencer Seedless Apple Co., Michigan Division, preserved Specimens and one year trees.

Oregon Nursery Co., Salem, Ore., Sack of Franquette Walnuts.

Western Fruit Grower, St. Joseph, Mo., Brother Jonathan Apple.

MATERIALS.

Thos. Meehan & Sons, Dreshertown, Pa., Red Star Raffia.

McHutchison & Co., New York City, Red Star Raffia.

New Jersey Moss and Peat Co., Bale of Moss with samples.

Ward, Dickey Steel Co., Indiana Harbor, Ind., Box Straps.

Rochester Lithographing Co., Rochester, N. Y., Colored Plates, Binders and Cases.

Vredenburg & Co., Rochester, N. Y., Colored Plates, Photographs and Catalogues.

Perfection Manufacturing Co., Detroit, Mich., Tree and Pot Labels.

Dayton Fruit Tree and Label Co., Dayton, O., Tree and Pot Labels.

Benjamin Chase Co., Derry, N. H., Tree and Pot Labels.

J. Horace McFarland Co, Harrisburg, Pa., Catalogue samples.

Western Fruit Grower Pub. Co., St. Joseph, Mo., Colored Plate and Catalogue samples.

INSECTICIDES AND FUNGICIDES.

American Horticultural Dist. Co., Martinsburg, W. Va., Large Line of Fungicides, Insecticides and Grafting Wax.

Thayer-Hovey Soap Co., Tak-a-nap Emulsion Soap.

B. G. Pratt Co., New York, Scalecide.

TREES AND PLANTS.

Thomas Meehan & Sons, Dreshertown, Pa., Japanese Maples.

J. G. Harrison & Sons, Berlin, Md., Budded Apple, Pear and Cherry.

Fraser Nursery, Huntsville, Ala., Peach Trees in specified grades.

J. H. Skinner & Co., Topeka, Kan., Seedling Cut Leaf Maple. Special mention as a new feature.

Oregon Nursery Co., Salem, Ore., Miracle Tree.

McNary & Gaines, Xenia, Ohio, Hydrangea aborescens.

E. Y. Teas Co., Centerville, Ind., Am. Everblooming Hydrangea.

Elizabeth Nursery Co., Elizabeth, N. J., Collection of Shrubs and Evergreens for lining out.

Jackson & Perkins Co., Newark, N. Y., Hydrangeas and Clematis.

D. Hill, Dundee, Ill., Evergreens, large and small specimens in variety.

Sherman Nursery Co., Charles City, Ia., Collection of Evergreens in variety.

Good & Reese Co., Springfield, O., Collection of Rose Plants in variety for lining out.

Vaughan's Seed Store, Chicago, Ill., White Baby Rambler Roses, and Snowball Hydrangea.

SPRAYERS.

The Am. Horticultural Dist. Co., Martinsburg, W. Va., Niagara Power Sprayer.

Harrison H. Harper, Exhibiting for E. C. Brown Co., Rochester, New York, Traction Power Spray for Nursery, Orchard and Vineyard.

E. F. Kauffman, York Gas Sprayer.

TOOLS AND APPLIANCES.

Am. Horticultural Dist. Co., Martinsburg, W. Va., Pruning Shears.

J. W. Stevenson, North Bend, Neb., Tree Baler and Box Clamp.

L. F. Dintleman, Belleville, Ill., Simplex Tree Baler.

G. C. Stone, Dansville, N. Y., Willow and Twine Looper.

I. E. Ilgenfritz & Sons, Monroe, Mich, Stock and Graft Planter and Firmer.

H. L. Reed, Louisiana, Mo., Tree Stripper.

Stark Bros., Louisiana, Mo., Tree Digger and Brown Box-Clamp.

Allen L. Wood, Rochester, N. Y., Automatic Tree Pruner.

Winfield Nurseries, Winfield, Kan., Dunbar Seedling Topper.

Jackson Perkins Co., Newark, N. Y., Tree Counter.

Chase Nursery Co., Huntsville, Ala., Nursery Hoe.

Thomas Meehan & Sons, Dreshertown, Pa., Nursery Spade.

Alabama Nursery Co., Huntsville, Ala., Caliper, Tree Counter, Knives, Shears and Muleskin Mittens.

Addresseograph Co., Chicago, Ill., Addressing Machine.

JOURNALS.

The National Nurseryman, Rochester, N. Y., sample copies.

The American Fruits, Rochester, N. Y., sample copies.

Western Fruit Grower, St. Joseph, Mo., sample copies.

National Fruit Grower, St. Joseph, Mich., sample copies.

Apple Specialist, Quincy, Ill., sample copies.

Suburban Life, New York City, sample copies.

COMMENTS.

We find the machinery exhibit stronger and better than in the past. The exhibit of planting machines, tree balers, spray pumps, tree strippers, tree diggers are specially worthy of mention.

Your Committee would command also the exhibit of live plants illustrating grades and methods of grading, methods of culture and methods of training, and new and desirable forms of nursery products.

We wish also to commend the exhibits of fresh fruits and vegetables, both of the growth of the year 1906 and year 1907.

The Association is indebted to the Exhibit Committee for the excellence and variety of exhibits; a collection of this kind is only gotten together by well directed and persevering efforts.

We understand from the Chairman of the Exhibit Committee that other exhibits than those mentioned in our report were shipped, but by reason of delay or going stray they failed to arrive, which is very much regretted.

Respectfully submitted,

W. B. Munson,
W. C. Barry,
John Craig.

TARIFF ON ROSE CUTTINGS.

Mr. Wm. Pitkin, Chase Bros., Rochester, transmits the following:

A court decision of some importance on rose cuttings was published May 29th under Treasury Decision 28,206. The decision is adverse to the Government who returned same as "rose cuttings that had been put in sand in preparation for shipment, but that had never been in soil", dutiable at 2½ cts. each. The importer claims that they were dutiable at 25%. The importer was sustained by the Board of General Appraisers. The Government took an appeal to the Court who also decided against them.

Yours truly,

G. W. Sheldon & Co.

A KINDLY REMEMBRANCE.

Mr. Editor:

National Nurseryman, Rochester, N. Y.

Sir:—I have read with great interest the June issue of your valuable Journal, and more especially the excellent program of the meeting of the Association. The many names included therein, and the most interesting subjects of discourse, must have led to a highly satisfactory meeting. For many years I used to come across and attend your conventions, and always had the greatest pleasure in meeting my business friends.

From New York to Nebraska, Texas to Minnesota, I used to travel over your country, and also into Canada, for nine successive years, and I used to enjoy the trip immensely, and especially the conventions.

Now that I cannot get across the Pond to see you all, your esteemed Journal is like a link with the past, and I wouldn't like to miss it.

Wishing you every good wish and success,

Yours faithfully,

Annan, Dumfrieshire, Scotland. John Palmer.

REGISTER OF ATTENDANCE—SUPPLIED BY SECRETARY SEAGER.

Tennessee Wholesale Nurseries, Winchester, Tenn., J. C. Hale
Kohankie & Son, Painesville, O.
Chas. Ernst, Moscow, Ohio.
A. F. Bernard, F. W. Bernard, Painesville, Ohio.
J. Horace McFarland Co., Harrisburg, Pa., rep. by O. P. Beckley.
Allen L. Wood and wife, Rochester, N. Y.
Ebbings & Van Groos, Boskoop, Holland, rep. by Wm. Satter.
Alabama Nur. Co., Huntsville, Ala., Herbert Chase, Earl Roach, Chas Rolfe.
C. L. Yates, *National Nurseryman*, Rochester, N. Y.
John Craig, *National Nurseryman*, Ithaca, N. Y.
Hiram T. Jones, Elizabeth, N. J.
L. D. Poock, Troy, Ohio.
C. W. Vredenburg, Rochester, N. Y.
Doubleday, Page & Co., New York, N. Y., rep. by Nathan R. Graves, Rochester, N. Y.
Sherman Nur. Co., Charles City, Ia.—E. M. Sherman, F. A. Thomas.
C. G. Patten & Son, Charles City, Ia., by H. G. Patten.
Marshall Bros., Arlington, Neb.
Harrison Nursery Co., York, Neb.
The Fruit Grower, St. Joseph, Mo.—W. G Campbell, James M. Irvine.
Irving Rouse, Rochester, N. Y.
E. S. Welch, Shenandoah, Ia.
W. Saddler, Bloomington, Ill.
Wm. Flemer, Springfield, N. J.
P. Ouwerkerk, Weehawken, N. J.
G. L. Welch, Fremont, Neb.
W. H. Bright, Ft. Atkinson, Wis.
E. Runyan, Elizabeth, N. J.
J. H. Dayton, Painesville, Ohio.
J. J. Harrison, Painesville, Ohio.
W. C. Harrison, Painesville, O.
Rob't George, Painesville, Ohio.
Jay Storrs, Painesville, Ohio.
A. N. Brown, Wyoming, Del.
A. F. Lake, Shenandoah, Ia.
D. S. Lake, Shenandoah, Ia.
J. H. Wallace, Shenandoah, Ia.
J. M. Graham, Mechanicsville, Ia.
E. Albertson, wife and daughter, Bridgeport, Ind.
C. M. Hobbs, Bridgeport, Ind.
Harry Hobbs, Bridgeport, Ind.
Freder'k Hobbs, Bridgeport, Ind.
C. W. Ward, Queens, L. I.
D. W. Ford, Madisonville, Tex.
W. F. Heikes, Huntsville, Ala.
F. A. Weber, Nursery, Mo.
Walter Truitt, Chanute, Kas.
Henry B. Chase, Huntsville, Ala.
Thos. B. Meehan, Dreshertown, Pa.
E. P. Bernardin, Parsons, Kas.
Orlando Harrison, of J. G. Harrison Sons, Berlin, Md.
Harlan P. Kelsey, Salem, Mass.
J. McHutchison, New York City.
E. W. Kirkpatrick, McKinney, Texas.
Sara Kirkpatrick, McKinney, Tex.
Alice Kirkpatrick, McKinney, Texas.
Cedar Hill Nursery & Orchard Co., Winchester, Tenn., by J. W. Shadow.
American Horticultural Distributing Co., Martinsburg, W. Va., by John W. Stewart.
Winfried Roelker, N. Y. City.
W. H. Wyman, N. Abington, Mass.
J. F. Sullivan, Am. Florist, Chicago, Ill.
Stark Bros. Nurseries & Orchard Co., W. P. Stark, Eugene W. Stark, Louisiana, Mo.
Geo. K. Pixley, National Fruit Grower, St. Joseph, Mich.
McNary & Gaines, Xenia, Ohio, by J. M. McNary.
Montana Nursery Co., Billings, Mont., by D. J. Tighe.
W. & T. Smith Co., Geneva, N. Y., by Theo. J. Smith.
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Giles County Nur. Co., Pulaski, Tenn., R. O. Lamar, Mgr.
Southern Nur, Co., Winchester, Tenn., E. W. Chattin., H. N. Camp.
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Wheelock & Clark, Fredonia, N. Y.
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W. F. Bohlender and wife, Phoneton, Ohio.
R. B. Fields, Fremont, Neb.
John Watson, Jackson & Perkins Co., Newark, N. Y.
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F. E Schifferli, Fredonia, N. Y.
I. E. Ilgenfritz & Sons Co., Monroe, Mich., by W. F. Ilgenfritz.
W. C. Reed, Vincennes, Ind.
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Peter Youngers, Geneva, Neb.
H. J. Hunter, Detroit, Mich.
Oregon Nursery Co., Salem, Ore., by M. McDonald.
Greening Nursery Co., Monroe, Mich., B. J. Greening, R. M. Sperry.
H. D. Simpson, R. A. Simpson, H. M. Simpson & Sons, Vincennes, Ind.
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Guy A. Bryant and wife, Princeton, Ill.
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A. B. French, Clyde, Ohio.
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Geo. S. Josselyn and wife, Fredonia, N. Y.
W. H. Meyerhofer, Salem, Ohio, Deming Co.
M. L. Carr's Sons, Yellow Springs, O. E. Carr.
G. N. Noyer, Laketon, Ind.
Geo. A. Hawley, Hart, Mich.
Henry Hicks, Westbury Sta., Nassau Co., Long Island, N. Y.
A Barnes & Son, Mt Healthy, Ohio, rep., E. M. Barnes.
Oscar H. Will, Bismarck, N. D.
The Hawks Nur. Co., Rochester, N. Y., by A. A. Mosher.
Morris & Wellington, Fonthill, Ont., E. Morris.
J. S Wilson, (Vaughan's Seed Store,) Chicago, Ill.
W. O. Muchmore, Fremont, O.
R. J. Coryell, Birmingham, Mich.
A. P. Goodwin, Industry, Pa.
T. V. Munson & Sons, Denison, Texas, by Will B. Munson.
H. Frank Darrow and wife, New York City.
Chas. A. Ilgenfritz and wife, Monroe, Mich.
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E. G. Hill, Richmond, Ind.
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Geo. Winter, La Salle, Ill.
D. Hill, Dundee, Ill.
J. L. Bagley, New Haven, Mo.
John C. Chase, Derry, N. H.
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Blue Grass Nurseries, Kentucky, L. E. Hillenmeyer.
Z. K Jewett & Co., Sparta, Wis., A. J. Jewett and wife.
Lake View Nurseries, A. F. De Land.
Geo H. Whiting, Yankton, S. D.
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F. S. Nichols, Painesville, Ohio.
W. B. Cole, Painesville, Ohio.
Clifford Waldorf, Painesville, O.
H. E. Jackman, Waterloo, Ind.
E. W Reid, of L. L. May & Co.
E. C. Morris, Brown's Nur., Ont.
Chas. J. Brown and two sons, Rochester, N. Y.
Nelson Bogue, Batavia, N. Y.
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Clarence Wedge, Mrs. Clarence Wedge, Albert Lea, Minn.
Central Michigan Nur., by L. P. Thurston, Geo. Hamilton.
J. H. Skinner and wife, Station A, Topeka, Kans.
Kansas City Nurseries, by Geo. H. Johnston.
Paw Paw Valley Nursery Co.
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C. W. Stuart & Co., Newark, N. Y., by J. M. Pitkin.
Chase Brothers Company, Rochester, N. Y., Wm. Pitkin.
The Gardner Nursery Co., Osage, Ia., C. E. Gardner.
Hoopes Bros. & Thomas Co., West Chester, Pa., by Wilmer W. Hoopes, C. E. Cattell.
C. C. Mayhew, McKinney, Tex.
G. C. Perkins, Newark, N. Y.
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Foster & Griffith, Fredonia, N. Y.
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Treeville Nur. Co., Powell Sta., Tenn., by S. Dougherty.
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H. E. Merrell, Geneva, N. Y., rep. by H. L King.
W. P. Bates, Elyria, Ohio.
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Perfection Mfg. Co., Detroit, Mich.
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Davenport Nur. Co., Davenport, Iowa.
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P. H. Dougherty, Groveland, N. Y.
J. S. Cooley, Groveland, N. Y.
Morey & Son, Dansville, N. Y., by J. B. Morey.
B. W. Secord, Pelham Corners, Ont. Can.
Chas. C. Leedle, Springfield, O.
G. W. Southern & Sons, Clarksburg, West Va., by B. T. Southern.
Jas. M. Kennedy, Dansville, N. Y.
C. W. Hoffman, Dayton, Ohio.
T. J. Ferguson, Wauwatosa, Wis

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ROCHESTER, N. Y., JULY, 1907.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

President Harrison recommends that a claim department or a board of adjudication to assist in adjusting differences between nursery firms and transportation companies be established. Whether such a department is necessary or whether the work of this department should not properly fall upon the committee in charge of transportation is a question which the executive of the association should consider carefully.

A CLAIM DEPARTMENT.

No matter what part of the country one may visit or correspond with, the universal evidence is that labor is becoming more expensive, that transportation charges are increasing, and that the cost of materials is advancing each year. In view of this there seems to be no escape from the logical conclusion that the price of nursery stock must be increased. Such a movement would simply be in accordance with the conditions and in keeping with the general trend of the times. With this advance in nursery stock ought to come a resolve to improve the quality. Good stock at fair prices should be the maxim which will govern the action of nurserymen in the future.

ADVANCES IN PRICE OF NURSERY STOCK.

The Detroit convention has passed into history with a record of having been strictly on the business order. President Harrison made good in his resolve to carry such a program through to the last letter. The program not only provided a good bill of fare but the actors were on deck almost to a man and answered the call with a brief paper or a pointed address. Perhaps there was not time enough for discussion, but on the other hand a great deal of ground was covered. The committee and officers are to be congratulated. A full report of the convention will be found on another page.

A BUSINESS MEETING.

The recommendation made by President Harrison in his address at the annual meeting that there should be closer co-operation between nurserymen and experiment stations was timely and valuable. Every now and then we see a pathetic case where an originator of a worthy variety of fruit has by reason of over-conservativeness or lack of business ability been unable to reap the just reward of his labors. He has failed because he has feared to take into his confidence the experiment stations to the extent of placing in their hands for testing the variety which he has originated. Some may say that this is a dangerous thing to do, that in giving it to the experiment station the originator is losing control of it. This statement is hardly true, for there are very few experiment stations that will not faithfully guard the interests of the originator. In this matter of testing new varieties, the co-operative work in the suppression of insects and fungous diseases, and we may add further through the encouraging of young men to enter the horticultural field by way of the nursery department, there is abundant opportunity for effective co-operation between the teacher, the investigator, and the practical plant grower. It is to be hoped that Mr. Harrison's suggestions will receive earnest consideration,

CO-OPERATION BETWEEN NURSERYMEN AND EXPERIMENT STATIONS.

J. W. HILL,
President.

C. M. HOBBS,
Vice President.

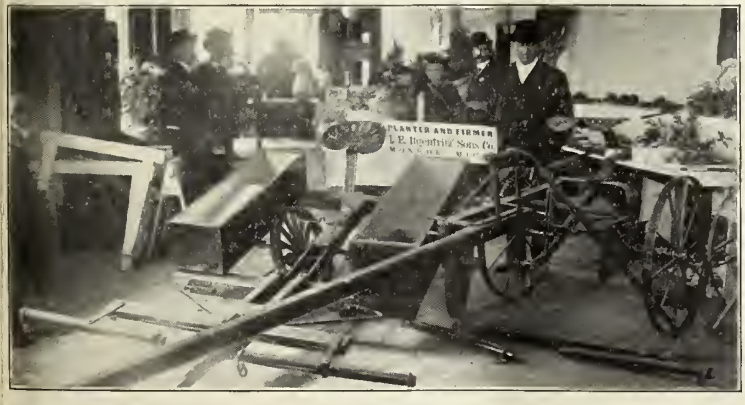
HENRY B. CHASE,
Member Executive Committee.
President Chase Nursery Company, Huntsville, Ala.

J. H. DAYTON,
Chairman Executive Committee.
Storrs & Harrison Co., Painesville, Ohio.

E. M. SHERMAN,
Member of Executive Committee President The
Sherman Nursery Co., Charles City, Iowa.

ILGENFRITZ TRENCHER AND FIRMER.

The trencher and firmer exhibited by I. E. Ilgenfritz & Son, Monroe, Mich., marks another important step in the evolution of nursery machinery. Photographs shown by Professor Craig in his lecture on the "Nurseries of the United States," illustrated very well the efficiency of these implements in the loamy soil of the Huntsville, Ala. district.



Planter and Firmer—I. E. Ilgenfritz & Son, Monroe, Mich.

As labor savers they represent a real advance. The stock is well planted, another essential consideration. We have noted their use in a number of nursery regions and have pleasure in commending them to nurserymen generally.

THE REED TREE-STRIPPER.

[Illustration on page 180.]

This was one of the chief objects of interest in the exhibits room at the Detroit Convention. It is certainly an ingenious conception. The fact that leaves must be stripped from early dug trees is an unpleasant addition to the work of the nurseryman. But it cannot hardly be avoided. It is tedious and expensive; some have tried sweating them off with more or less satisfaction.

Now Mr. Reed comes along with his whipping apparatus and the leaves are threshed off in a trice. The mechanism is very simple. A frame with a canopy top for shade, supports a thickly padded drum, to which are attached many straps of raw-hide, ten or twelve inches in length. The drum is revolved rapidly by engine power, this causes the straps to beat the air sharply, as they revolve with great velocity. A tree is laid with its top across the drum—roots toward the operator, and lo, the leaves disappear in a twinkling.

We are pleased to present a photograph of this apparently valuable device to our readers. The picture was taken in the not very favorable surroundings of the exhibits hall.

All who are interested should write Mr. Homer L. Reed, Louisiana, Mo., for his illustrated circular.

PROGRAM—THE EIGHTH ANNUAL CONVENTION OF THE TEXAS NURSERYMEN'S ASSOCIATION

TO BE HELD AT COLLEGE STATION, TEXAS, ON AUGUST 23rd, 24th, 25th, 1907.

E. W. KIRKPATRICK, President, McKinney, Texas.

B. L. ADAMS, Vice-President, Bonham, Texas.

J. S. KERR, Acting Secretary, Sherman, Texas.

Hours of meeting to be determined and announced each day of convention.

Welcoming address by Prof. A. F. Conradi, College Station. Response and annual address by Pres. E. W. Kirkpatrick. Address by H. J. Adams, Schertz, Texas. He to choose his own subject.

The Increasing Demand for Ornamental Planting.—J. B. Baker, Ft. Worth; W. B. Munson, Denison, Texas.

The Spraying of Orchards and Nursery Stock, What, When, How.—F. W. Mally, Nacogdoches; Prof. E. J. Kyle, College Station.

Landscape Planning and Planting.—F. T. Ramsey, Austin, Texas; Frank Brunton, Dallas.

The Detroit Convention of 1907 and the Lessons of the Hour.—C. C. Mayhew, Sherman; E. W. Kirkpatrick, McKinney.

Report of the Committee on Revision of the Texas Inspection law, with suggestions by members of the committee and others. John S. Kerr, Sherman, Texas, chairman.

Reports of other standing committees.

Election of officers.

Ample time will be devoted to business and pleasure.

The annual convention of the Texas Nurserymen's Association proves very attractive to nurserymen of Texas, Oklahoma, Indian Territory, Arkansas and Louisiana as a very pleasant outing, a place to renew and enjoy acquaintanceship and to form new ones, to advance the general interests of horticulture and to transact much important business. No nurseryman of this section can afford to miss this annual convention.

Besides the pleasure and profit it is the manifest duty of every nurseryman to attend and contribute to and receive his part of the general good.

The Texas State Horticultural Society also will hold its sessions at the same time and place, and also The Texas Farmers' Congress. There will be reduced railroad rates of one cent a mile, and good and cheap living furnished by the A. & M. College authorities for your accommodation.

Nurserymen everywhere are cordially invited by the Texas Nurserymen's Association, and are assured a good time in the Lone Star State.

Membership fee $2.00 per annum, may be sent to Pres. E. W. Kirkpatrick, McKinney, Texas. There are over 200 nurserymen in Texas alone who ought to be there.

W. A. ALLEN & SON, GENEVA, OHIO.

NATIONAL NURSERYMAN:

"The Woodbine Nursery, owned by W. A. Allen, Geneva, Ohio, will be known hereafter as W. A. Allen & Son, having formed a partnership with my oldest son, who has been with one of the largest nurseries in the United States, perfecting himself in the most up-to-date ways of doing the nursery business," writes the senior member of this thriving concern.

Success to the new company.—ED.

Fruit and Plant Notes.

HYDRANGEA ARBORESCENS STERILIS (BAILEY).

BY J. W. MCNARY.

This superb hydrangea is new commercially, but has been known locally in Pennsylvania and Ohio for many years. It is undoubtedly a sport from the native *Arborescens*. Its type is, however, reliably fixed, as but one instance of reversion has been observed during the sixteen years the writer has had this plant under observation.

The place of origin is in doubt. It has been discovered growing under "wild" conditions in both the above named states. Each group may have had a distinct origin, but plants from both localities seem to be identical.

The flower clusters are large on old plants, averaging probably five inches in diameter, but on young plants, or the new wood of old plants severely cut back, they have exceeded twelve inches in diameter. The cutting back process has the effect of reducing the number of flowers, but largely increasing their size.

The color is a pure, translucent, snow-like white, without the creamy and later pink tint that is characteristic of the H. Paniculata Grandiflora. The length of time this whiteness is retained depends somewhat on local conditions, but usually four or five weeks, when the flower begins to change slowly and gradually to a light green color, and by October the foliage and flowers are of a similar shade. The clusters are retained intact long after the leaves have fallen, indeed frequently throughout the following winter.

The flowers appear in June and July, at a season when flowers, although abundant, are mostly colored and there is a real need for a substantial white flower at this season of the year.

There seems to be no doubt about the hardiness of this Hydrangea, at least as far north as Boston. The tops are not affected by extreme cold except when conditions produce a late fall growth. It has never been known, as far as the writer can learn, to suffer injury in the roots during the most severe winters.

The plant propagates readily by layering, and is a strong, vigorous grower. It frequently blooms at one year, and in three years the plant will have assumed its normal shape and is in every respect a "thing of beauty." "Hills of Snow," a synonym referred to by Bailey in Cyclopedia of American Horticulture, is a deserved and appropriate name. It is also locally known as the "Snowball Hydrangea." It is registered with the Society of American Florists under the name of "H. Arborescens Grandiflora Alba."

This Hydrangea gives every promise of becoming even more popular than the well known H. Paniculata Grandiflora as it lacks the coarseness and the stiffness of the Paniculata Grandiflora, and is much more refined in tone and effect.

The blooming plants exhibited at the recent nurserymen's convention at Detroit, by McNary & Gaines, attracted much attention. At the close of the convention they were handed to the Commissioner of the Park Department of Detroit, for the city parks, who had them carefully planted in Palmer Park. The donor requested that they receive no protection during the coming winter, as a test of their hardiness, promising to replace them should they show injury from the winter.

EXHIBIT OF AMERICAN HORTICULTURAL DISTRIBUTING COMPANY.

One of the most extensive and at the same time instructive displays in the Exhibits Hall at the convention was that furnished by the American Horticultural Distributing Company of Martinsburg, West Virginia. Part of this display is seen in the immediate foreground of the picture taken in the exhibits room. (See convention article.) The display covered various brands of insecticides and fungicides. It included sprayers, chemicals for fumigation, dipping of nursery stock, and the like. That a strong company of this kind can be formed and profitably operated is suggestive of the horticultural development of the times. This company is making a careful study of remedies which are expected to control plant parasites. There are intelligent men in its employ, and it seems to be attacking the problem in a scientific as well as straightforward manner.

HYDRANGEA ARBORESCENS STERILIS.

A five year old plant at Xenia, Ohio, having 126 perfect blooms at the time the photograph was taken. Photographed by McNary & Gaines, one of the several introducers.

PREVENTION OF APPLE CROWN-GALL AND HAIRY-ROOT.

BY DR. GEORGE G. HEDGCOCK, U. S. DEPARTMENT OF AGRICULTURE.

In considering the subject, the forms of crown-gall and hairy-root will be noted before giving suggestions for their prevention. The apple crown-gall is of two more or less distinct types, the soft and the hard forms. Both are soft at their inception, but differ in texture when mature and in the frequent rotting away and renewal of the soft type. The soft type is destitute of roots or shoots on the surface and from the interior. The hard type may be without (simple) or with (involved) apparently healthy shoots or roots springing from the interior of the gall.

The hairy-root disease is of three forms. The simple form, common on seedlings, which consists of numerous fine roots springing thickly at right angles from a shortened taproot. This form is not usually accompanied by galls. There are two involved forms of hairy-root found chiefly on nursery stock and orchard trees. The first and common form, which is here designated for convenience as the woolly-knot, is found both on the crown, and on the trunk and limbs of apple trees. On the crown, there sometimes appears a callus-like excrescence from which there is thrust out a mass of more or less fleshy roots, which are often fasciated at first, and which grow out in a matted mass from the side of the crown. Such masses are usually thrown out from the scion portion of a grafted tree, rarely from the seedling-root portion. Above the ground, the disease occurs in the form of warty knots, which have a smooth surface when young, but later become warty beneath the bark, which is cast off from the surface of the knot. Such knots when placed beneath the soil, throw out masses of roots identical with the subterranean form. A second involved form here designated broom-root, occurs as a broom-like mass of roots from the end of a root, and often turn upward towards the surface of the earth, contrary to the usual direction of roots. This form does not spring from a swelling or knot. It is more common on dry, loose upland soils.

A study of these forms has led to the following conclusions: Soft crown-gall is rare, and may be related to the gall of the stone-fruits. It may be slightly contagious. Hard crown-gall is related to callus formation, of which it is probably a pathological form. It is favored by stiff, heavy soils. The hairy-root is a very peculiar disease, if it can be called one, with some physiological phenomena which separate it from true diseases. Cuttings from hairy-root seedlings, root very much more readily and much better than from healthy ones. It is often easy to grow trees from such cuttings, but almost impossible to grow them from normal cuttings.

The following suggestions are made to nurserymen, along the line of nursery methods, based on numerous experiments involving 100,000 trees grown from root-grafts in the nursery: Budding apple trees is suggested as a means of getting rid of a large amount of the hairy-root disease in all its forms. Care should be taken to select buds from trees free from the disease. Seedlings should be carefully sorted, and all rough, warty, hairy or tufted seedlings rejected as unsafe for use. No. 1 unbranched seedlings are the best and most profitable to use. In root-grafting the crown-gall diseases may be lessened very much by careful fitting of the union of root-grafts, and by wrapping the graft by a firm unyielding wrapping. This should hold the grafts securely together till they are planted out, then rot away quickly. This wrapping should entirely cover the wounded surfaces, especially at the lower end of the scion. Ordinary cheap calico or muslin, not waxed, is a good wrapping. Raffia is good if applied so as to cover all the wounds of the union. Cloth can be used as a wrapping at a low cost. A good way to handle cloth strips is as follows: Take a bolt of muslin, or calico, and place it under a good sharp paper cutter and cut it in rolls about an inch in width. Hang these on a rod in front of the operator. The wrapper tucks the first end under the wrapping, never under the cut end of the scion or root. Quickly wrapping the cloth tightly by three or four turns, it is tied by a half hitch and cut off by being thrown across the edge of a fixed blade in front of the operator. This manner of wrapping was first used by Mr. Homer Reed, at Louisiana, Mo., during the winter of 1905–06.

It has been clearly shown by our experiments that the hairy-root is transmitted by scions taken from badly affected trees, and scions from trees diseased with the hard crown-gall yield more diseased trees than those from healthy ones. To avoid an increase of disease from this source, nurserymen are advised to plant only healthy trees in the scion orchard, and to examine the crown of the trees in the scion orchard frequently, removing all trees showing signs of either hairy-root or crown-gall.

The time of planting root-grafts, while probably not concerned directly with the amount of crown-gall present, and quite certainly not with the amount of hairy-root, is still a vital question in the planting of root-grafts. Earlier planting is better than late planting if grafts must be stored under ordinary conditions. Grafts should be allowed to callus moderately and then held in cool storage until planted. The placing of grafts under excessively moist air conditions, under a temperature that stimulates the production of callus, undoubtedly tends to increase the per cent. of rough trees, especially with ordinary methods of wrapping. This means that grafts made in January and February should be kept in cold storage, especially in warmer locations.

The selection of proper soils for the growth of apple trees has not received our attention to the same degree as other conditions. In general our experiments indicate that low, moist, poorly drained soils, and heavy, stiff, clayey soils may produce more crown-gall than looser, drier soils. On the other hand, hairy-root formation may be found abundant under all conditions. The broom-root form, however, appears to be the most common in nurseries with drier upland soils.

Our experiment on the removal of crown-gall from trees indicates that about one-half of the number of trees thus treated may recover from the disease. In no case where the gall encircled the tree, or where it involved the production of

a large wound, was there a complete and certain recovery. Some of the trees treated had large galls, some small. Trees with the latter quite generally recovered. No experiment for the removal of hairy-root has been concluded.

The co-operation of nurserymen is asked in the further collection of data on the effect of these troubles on the life and usefulness of the apple tree. After July 1st, 1907, please address all communications to me at the Bureau of Plant Industry, Washington, D. C., which will be my headquarters in the future.

OUTLINE OF FORMS OF APPLE CROWN-GALL AND HAIRY-ROOT.

I. Crown-Gall.
  A. True callus relation to crown-gall.
  B. Hard crown-gall—not contagious.
    1. Simple.
    2. Involved.
      a. With ordinary shoots.
      b. With ordinary roots.
  C. Soft crown-gall—contagious.
    1. Simple only.

II. Hairy-Root—Not Contagious.
  A. Simple.
    1. On roots.
    2. On shoots.
  B. Involved.
    1. From swellings or knots—Woolly-Knot.
      a. On crown or roots.
      b. On trunk or limbs-knots only.
    2. From Root ends—Broom Roots.

PREVENTION OF APPLE CROWN-GALL AND HAIRY-ROOT.

I. Improved Nursery Methods of Propagation.
  A. Budding.
  B. Better-made Root-grafts.
    1. Careful selection.
      a. Of seedlings.
      b. Of scions.
    2. Smoothly fitted Root-grafts.
    3. Better wrapping of grafts.
      a. With cloth.
      b. With Raffia.
  C. Better-Selected Scion Orchards.
    1. Planted with smooth-rooted trees.
    2. Examination of Roots of Trees in scion orchards.
  D. Earlier Planting of Root-Grafts.
  E. Improved methods of Storing Grafts.

II. Improved Physical Conditions.
  A. Selection of Soils.
  B. Drainage.

III. Possibility of a Cure of these Diseases.
  A. Crown-Gall.
  B. Hairy-Root.

IV. Other Considerations.

"Mr. Henry Kallen, representing Mr. H. Frank Darrow, of 26 Barclay St., N. Y., will sail for Holland on July 3rd, and will remain abroad for several months, to assist in the selecting and packing of our fall shipments."

Mr. H. Frank Darrow, 26 Barclay St., N. Y., who formerly was associated with the late Mr. August Rhotert, since the business was established in 1893, will sail for Europe on July 11th, to visit his foreign connections in the interests of his customers.

In 1887, Mr. Darrow entered the employ of Messrs. Theo. Pabst & Co., of the same address, who were then, and for several years previous, representing the firms of Messrs. Vilmorin, Andrieux & Co., Paris, and Mr. Louis Leroy, Angers, France.

Besides these firms he is agent for The Haerens Co., Somergem, Belgium; Mr. E. Neubert, Wandsbek, Germany; Mr. H. M. Hardyzer, Boskoop, Holland; John Palmer & Sons, Annan, Scotland, and Mr. G. H. Richards, London, England.

While in Holland, Mr. Darrow will personally attend to purchasing Dutch bulbs to fill the various orders he has received.

Mr. H. Frank Darrow.

CONVENTION ECHOES.

No badger fights this year.

We missed Stanley Watson and his fund of stories.

The Lone Star State was well represented by E. W. Kirkpatrick and daughters, and W. B. Munson of Denison.

The Brother Jonathan men were on deck and with "the goods" this time.

It was good to see veterans like Messrs. Harrison and Albaugh among the most interested and active.

Charley Ilgenfritz doesn't pose as a "spieler" but when it comes to hustling, count on him every time.

The Association picked the right man to aid the movement for legislation for a uniform tag system. "Orlando Harrison gets things done."

Nebraska and Kansas are coming to the front as nursery stock regions, because the men behind the industry are wide awake and alive.

The delegation of ladies was comparatively small but the grade was very choice.

No one accused Pete Youngers of having fallen off in middle caliper.

No. 1. "Hello M— give me the recipe for keeping young and growing fat. No. 2. "Thats easy: Quit smoking, I've gained 15 pounds since I cut it out."

Before the tree stripper: No. 1. "I'll be gol-darned but that beats me!" No. 2. "No sir, it beats the leaves till there aint no leav-in's."

J. Horace McFarland's cheerful presence was missed and the cause of his absence much regretted. Beckley made a good substitute.

Judge Stark drew several long breaths at the close of the convention. "I'm perfectly willing to give some one else a chance," quoth he.

President Hill has named chairmen of committees only. He will depend upon the chairmen to select their associates.

The illustrated sketch of the nurseries of the United States on Wednesday night was received with such favor that the speaker was not obliged to leave by a side door and the fire escape. There are however other nurseries and good ones.

A NOTED EUROPEAN SEED HOUSE.

CONRAD APPEL, DARMSTADT, GERMANY.

At the Jamestown Tercentennial Exposition recently opened at Hampton Roads, near Norfolk, Va., there is represented among others the well known seed firm Conrad Appel of Darmstadt, Germany. This firm is showing in the States Exhibit Palace, in a very tasteful show-case, its specialties, viz: high grade and excellently cleaned forest tree, grass, clover and agricultural seeds, as well as grass seed mixtures for lawns and meadows in those kinds which it has for many years specially exported to the States and which are of particular interest to the American seed trade. A further exhibit of Conrad Appel is an ornamental lawn, which he had sown around the Pocahontas Hospital in order to show his unsurpassed grass seed mixtures for permanent lawns. This lawn forms a fine, luxuriantly green, even surface, thus testifying to the excellent quality of Conrad Appel's mixtures.

CONRAD APPEL, DARMSTADT
ESTABLISHED
GERMANY
FOREST AND AGRICULTURAL SEED ESTABLISHMENTS
HIGH GRADE GRASS CLOVER AND TREE SEEDS.
EXPORTS ALL OVER THE WORLD
EXTENSIVE DESICCATING ESTABLISHMENTS FOR FOREST TREE SEEDS.
IMPORTS FROM ALL CONTRIES
LARGE SEED CLEANING AND DRESSING PLANTS OF UP-TO-DATE SYSTEM
CONRAD APPEL
MANY HIGHEST AWARDS: UNIVERSAL EXHIBITION MILAN 1906
AGRICULTURAL EXHIBITION MAYENCE 1905
INDUSTRIAL EXHIBITION ALTONA 1905
INTERNATIONAL EXHIBITION NAMUR 188
MANY HIGHEST AWARDS: UNIVERSAL EXHIBITION LIEGE 1905
INTERNATIONAL EXHIBITION CAPE TOWN 1904-05
AGRICULTURAL EXHIBITION ARLON 1904
INDUSTRIAL EXHIBITION OFFENBACH 1879
UNIVERSAL EXHIBITION PARIS 1867
HIGH GRADE SEEDS
DARMSTADT-GERMANY

MEMBERS OF THE COMPANY.

The firm, which is one of the oldest and most important in the trade, has been established nearly 120 years, having been founded in 1789 by Conrad Appel at Griesheim, a small place near Darmstadt, which at the beginning of the last century was the center of the German forest seed trade. His son, Conrad Appel, who was the head of the firm up to 1855, considerably extended the business and in 1850 transferred it to Darmstadt on account of the better railway communications. His successors, his son, Conrad Appel, and his son-in-law, Ernst Ludwig Heyn, did much to enlarge the business by extending more and more the seed dressing and cleaning establishments, which, even in the sixties, were already very conspicuous. In 1888, the son of E. L. Heyn, Councillor of Commerce Ludwig Heyn, the present owner of the business, became head of the firm, which, as he is the great-grandson of the founder, has remained with the same family for four generations.

PURE SEEDS.

The present owner was able to extend the business still further; he has been especially anxious to arrive at an unexceptionable standard in the cleaning of the seeds by continually extending and improving the seed cleaning department so that at the present time more than 40 machines, partly well tested systems, partly of his own construction, are always kept going. The firm has its own railway siding, also an electric generating plant of its own and a large engine house to work the various cleaning and dressing plants as well as the Coasts Seed Kilns for the curing of forest tree seeds. Besides the latter there are six further desiccating establishments in the neighborhood of Darmstadt dependent on the head firm.

CONRAD APPEL'S SPECIALTIES.

Forest tree, grass, clover and agricultural seeds, grass seed mixtures and forest trees.

As to the forest tree seeds, for which Darmstadt is the center in the German trade, the home grown evergreen tree seeds are extracted from the best pine cones in the firm's own desiccating establishments, which are fitted with steam and air heating of the latest description, after which they are dressed in the most suitable cleaning plants up to the very highest grades of purity.

The deciduous tree seeds are most carefully gathered for the firm by reliable pickers and then cleaned in the firm's suitable mills.

The exotic tree seeds are imported from reliable sources only and Conrad Appel can always guarantee delivery of new crop seeds of best quality.

As for the grass seeds, Conrad Appel, by means of a most rational seed cleaning system, is able to turn out the same in unsurpassed purity and is, therefore, recognized in this respect as one of the leading seed firms of the European Continent, which is borne out by the ever-increasing demand for their seeds at home and abroad.

Conrad Appel's grass seed mixtures are of reliable germinative power and composed of the most suitable and well cleaned natural grass seeds only and his lawn mixtures—always supposing a proper treatment of the lawn—will insure really fine, durable, even lawns of deep green color and free from weeds. His mixtures for meadows and pastures as well, contain only the best fodder grasses.

SEEDS TESTED.

All the seeds, before leaving the establishments and being delivered, are examined as to their germinative power in Conrad Appel's own special laboratory and tested again by the leading seed testing stations regarding purity and growth. The figures which Conrad Appel gives in his catalogues are always based upon the analysis made at the International Seed Testing Station at Zurich (Switzerland), and it is the pride of the firm to deliver first class seeds only of such examined lots and of guaranteed new crop.

AWARDS OF MERIT.

At numerous exhibitions the firm has been awarded a great num-

ber of first prizes, among which only the awards of the last three years may be mentioned here, viz.: Horticultural Exhibition, Dusseldorf, 1904, Silver Medal; Agricultural Exhibition, Arlon, 1904, Gold Medal; International Exhibition, Cape Town (South Africa), 1904-05, Large Silver Medal; Industrial Exhibition, Tilsit, 1905, Silver Medal; Industrial Exhibition, Altona, 1905, State Medal; Agricultural Exhibition, Mayence, 1905, Large Silver Medal; International Exhibition, Liegs, 1905, Gold and Silver Medal; Universal Exhibition, Milan, 1906, Grand Prix; International Exhibition, Christchurch, N. Z., 1906-07, Large Silver Medal.

At the present moment the firm is also participating at the Great Horticultural Exhibition held at Mannheim, Germany, May to October, 1907, where it is exhibiting its well known seed specialties and lay out a number of show plots.

This firm has enjoyed the confidence of American seedsmen for many years. This confidence is based upon the substantial characteristics of reliability and high quality of goods.

MARKETING NURSERY STOCK.

PAPER READ BEFORE THE AMERICAN ASSOCIATION OF NURSERYMEN, BY C. J. MALOY, JUNE, 1907.

This is by far the most important operation connected with our business because we may grow as much stock as we please, but if we cannot find a market for it, our efforts will all be in vain. Nursery stock is sold at retail through means of a catalogue, dealing direct with the customer, this is also known as a mail order trade. It is probably the most satisfactory way to dispose of your stock if you can get enough orders. To develop such a trade, the first thing necessary is to advertise in such papers or magazines which in your judgment will bring you the most returns and these returns are mainly used to distribute your catalogue which is the most necessary adjunct in a business of this kind. A well arranged, comprehensive catalogue is necessary—the descriptions should be concise—not overdrawn, the prices should be given for each article, in fact, it should be made as plain and clear as it is possible to do, because this catalogue really is to act as a salesman and from it you must expect to get your orders. Prices should be reasonable according to the quality of stock furnished. Of course, the expense of all this will be considerable, but it is the only way in which a business of this kind can be worked up.

Nursery stock is also sold at retail through agents, and this has now assumed very large proportions in this country, but I do not feel competent to give advice on this branch of the business.

The wholesale branch of the nursery business is larger now than ever before. This is particularly true of fruit trees shipped from the West as well as from the nurseries at Dansville, Geneva and Rochester. The demand for ornamental trees and shrubs in wholesale quantities was, I think, greater this past spring than ever.

While there were immense quantities of both fruit and ornamental trees and shrubs shipped, the question arises whether we have received the prices we should, considering the increase in cost of production. This has always been a disputed question, and I have spoken of it before at these meetings. It seems to me that the nurseryman is not receiving anywhere near what he ought for his product as compared with prices in other lines of trade. We go on year after year growing immense stocks of this, that and the other, and then enter into competition with one another in order to dispose of these goods, at ruinously low prices. As a matter of fact, we are selling goods to-day at the same prices, and in some cases, less, than we did ten years ago when we know that the cost of growing has increased at least 50 per cent., to say nothing of the losses by drought, frost and hail. There is one remedy I would like to see applied which I believe would, in a measure, relieve this condition, and that is to avoid as much as possible the danger of over planting. It is true that this is a large country, but there is a demand only for a certain quantity. It may vary some one year with another, but you know pretty well what the average demand is. Now, if you plant more than what your market demands, you are creating a surplus which, if you want to dispose of, must invariably be done at a loss. Then again, prices at which surplus stocks are sold are, as a general rule, so low, that it has a demoralizing effect on the business, and creates the impression among a great many buyers that if the nurseryman can afford to sell at such ridiculously low prices, that there must be tremendous profits when goods are sold at regular prices, and they will form the habit of waiting until these surplus lists appear before placing their orders. So I say that over planting creates a surplus which, if disposed of at the usual low prices of surplus lists, is a great detriment to the following year's business. It is a hard thing to do, but in the long run, would it not be more profitable to burn the stock left over? Would it not have a tendency to stop the evil of over-planting which is really one of the principal causes of low prices?

I think it is also a mistake for nurserymen to sell roses and shrubs to department stores who retail them in most cases at below cost merely to bring trade for other things to their store. It cannot help but have a depressing effect upon this branch of the business, because if you ask a fair price for a rose plant, people who have no idea of the real cost of such things, will tell you what they can be bought at very much less at department stores.

In marketing nursery stock too, it must be borne in mind that one of the principal essentials is to know that the stock you are selling is genuine, that is, true to name. This is a very important thing to consider because it really means the foundation of your business, your reputation. If you are not careful to preserve that, your business is bound to suffer, in fact, it cannot exist for any great length of time.

The grading of nursery stock is another important item, and to which more attention should be given. There should be a uniform grade established which will apply to all sections of the country. For example, a Silver Maple or American Elm 8 ft 10 in. in height should have a given caliper or diameter at say 6 inches above the ground.

There may be other things to consider in the marketing of nursery stock, but I have tried to touch on some of the principal ones.

TRADE NOTES.

Chas. M. Peters, Troy, Ohio. "There has been a falling off in apples in this section and in the Miami Valley generally. The amount of other stock propagated is not changing much."

A. J. Brown, of Youngers & Co, Geneva, Nebr. "There has been a marked shortage of warmth. This has retarded growth of some things. Plums and apples are doing well."

E. M. Sherman, Charles City, Ia. "Season unprecedentedly late. Shipping period just closing. Evergreens are leaders with us and the demand is increasing."

F. W. Watson, Topeka, Kans. "Blocks of apple seedlings looking remarkably thrifty. Trade brisk. Outlook good for the grower."

W. H. Wyman, North Abingdon, Mass. "Trade in large size ornamentals steadily increasing. Rhododendrons as we understand their requirements will be widely planted."

Harlan P. Kelsey, Salem, Mass. "We have had a fine season for growth, both in our Carolina nurseries and on our home grounds. Come over and see 15,000 cyprepediums in bloom next week—something worth looking at!"

Morris & Wellington, Welland, Can. "Although the season has been backward, the growth of young and grafted stock has been very satisfactory. Trade good."

C. L. Watrous, Des Moines, Ia. "Season four weeks and a day behind its schedule. A good crop of apples and grapes is promised, but no cherries or plums.

W. H. Hartman, Dansville, N. Y. "Season very much behind. Plant of fruit stocks lighter than in former years."

UNIFORM INSPECTION.

REPORT OF SUB-COMMITTEE ON LEGISLATION.

R. C. BERCKMANS AND JOHN CRAIG.

The special committee, of the Committee on Legislation appointed at the last annual meeting to consider and report on the question of unifying and harmonizing inspection laws, begs leave to present the following statement :

No movement relating to the control of insect pests and fungous diseases may be expected to succeed without the united approval and support of the growers of nursery stock on the one hand and the students of economic entomology on the other.

There are two important entomological bodies of national scope and character in the United States which have to do with affairs affecting nurserymen. These are, the Association of Economic Entomologists, composed of investigators and teachers of the experiment stations and agricultural colleges. The second organization is made up of the nursery inspectors and are organized under the name of the Association of Horticultural Inspectors. The last named association met at Baton Rouge, La., in November, 1906, and considered the question under discussion.

The Association of Economic Entomologists met at Columbia University, December 28-29, with a representative of this special committee. The nurserymen were also fortunate in being represented by President Harrison and Special Representative Albertson. At the Columbia meeting the action of the inspectors with regard to the control of insect pests was carefully considered, and the following resolutions were unanimously passed :

"The committee would therefore suggest the following resolutions and procedure toward securing such legislation :

A. *Resolved*, That the Secretary of Agriculture should be empowered to inspect all imports and to make regulations governing importations liable to harbor insect pests and plant diseases, and that sufficient appropriation be made for this purpose.

B. That Congress should authorize the Secretary of Agriculture to proceed to exterminate or control imported insects or plant diseases, or any insect previously native to a restricted locality, but which may become migratory and threaten the whole country, whenever in his judgment such action is practicable, and that an appropriation be made for this purpose as a reserve fund for emergency use against any such pest which may arise. Such legislation would give the Secretary of Agriculture similar authority against plant enemies as now exists for procedure against animal diseases by the Bureau of Animal Industry.

C. 1. That the Congress of the United States be asked to enact a law empowering the Secretary of Agriculture to make such regulations as may be deemed necessary in order to secure uniform methods of nursery inspection and certification of all nursery stock which passes into interstate commerce.

2. That all state or territorial officials in charge of nursery inspection be urged to accept the certificates at their face value, and that, in states where laws are now in force, which will not allow the acceptance of such certificates, the inspection departments be requested to endeavor to secure such state legislation as will make this possible.

3. That each state should make and enforce such regulations as its local authorities may deem necessary, but that they be made as similar to those of the U. S. Department of Agriculture as practicable.

D. 4. Your committee suggests that the Association elect a representative to form a committee with a representative of the Association of Horticultural Inspectors and a representative of the American Nurserymen's Association to push this legislation before Congress, as in the judgment of your committee this is the best method available for securing its passage. We would also suggest that topic A and C above be combined in one proposed law, and that topic B, involving the control of introduced species, be embodied in another law, and that, if the passage of both measures be impracticable, efforts be concentrated upon the law involving the inspection of importations in the control of nursery stock for interstate trade, and that the other measure be pushed later."

In the above resolutions, we have the present status of the matter defined. The question is now before the American Association of Nurserymen. There are two parts to it : first, the Association should pass upon the principle involved in these resolutions ; if the principle is approved, a representative of the Association should be appointed to act with the representatives of the two entomological bodies. The American Association of Nurserymen can approve any part of these resolutions, and may instruct, if it pleases, its representatives to support or oppose any particular section. Of course the approval of the resolutions merely places the Association on record as to its attitude in the matter, and nothing will come of it unless the movement is actively promoted and pushed.

It is worth while pointing out that while there is a unanimity of opinion on the part of the entomologists that import nursery stock should be rigidly examined, and quarantined in case of infestation with serious insect pests, there is on the other hand some doubt in the minds of men prominent in the Association as to the feasibility of federal control of nursery inspection Dr. L. O. Howard has expressed himself on this matter in the December issued of the NATIONAL NURSERYMAN. The question is, therefore, now before the nurserymen of the United States. The matter should receive thoughtful attention. If it is recommended by the Association it will then have to be brought before Congress, where there is no good reason to suppose that it would fail if it has the united support of the entomologists of the country and the men in the field. If passed with an appropriation then the execution of the act will be in the hands of the Secretary of Agriculture to be worked out with care and caution. Your committee then presents this as a report of progress.

Report accepted.

Moved by Judge Stark that we appoint a representative to co-operate with the entomologists in pushing legislation. Carried.

Mr. Harrison appointed.

THE COMMITTEES.

NATIONAL NURSERYMAN, Rochester, N. Y.

The following named gentlemen have been requested to act in the capacity of chairman of the respective committees for the ensuing year.

Legislation—Wm. Pitkin, Rochester, N. Y.
Tariff—Irving Rouse, Rochester, N. Y.
Transportation—F. H. Stannard, Ottawa, Kansas.
National Inspection Law—Orlando Harrison, Berlin, Maryland.
Program—R. C. Berckmans, Augusta, Georgia.
Publicity—J. M. Irvine, St. Joseph, Missouri.
Exhibits—Harlan P. Kelsey, Salem, Mass.
Arrangements—George C. Seager, (Asso. Sec.) Rochester, N. Y.
Editing Report—J. Horace McFarland, Harrisburg, Pa.
Mutual Fire Insurance—Judge Eugene Stark, Louisiana, Missouri. Peter Youngers, Geneva, Nebraska. Harry Simpson, Vincennes, Indiana.

By a resolution of the Association at Dallas, Texas in 1906, the President is permitted to appoint the chairman only, of the respective committees, and the gentleman so appointed has the authority to call to his aid, or appoint any other member of the organization, as his associates.

The state Vice-Presidents have been requested to look after the interests of the Association in their respective states and report promptly to the President or Chairman of the Legislation Committee any matter of importance, requiring attention.

I am advised that Mr. Harrison of Berlin, Maryland, Dr. Forbes of Urbana, Illinois, and Prof. Newell of Baton Rouge, Louisiana, have already taken up the matter of uniform inspection law to be submitted to congress at its next session.

The matter of testing the constitutionality of the South Dakota Law, is in the hands of Chairman Pitkin, who has called to his aid, some other strong members of the Association, and prompt action may be expected in this important matter.

J. W. HILL, President.

NATIONAL NURSERYMAN :

I should be pleased to shake hands with Chas. A. Green of your city over the "trials and tribulations" of a nurseryman—for we were right in it this spring with no good extra help to be obtained and double the orders of any previous year. The unprecedent cold winter we had on this coast caused a great loss of house plants as well as dahlias and gladiolias. Stock ran short in this vicinity and orders had to go off partly filled.

Vancouver, B. C. M. J. HENRY.

PACIFIC COAST NURSERYMEN.

The 5th annual meeting of the Pacific Coast Nurserymen's Association will be held at Salem, Oregon, July 10, 11 and 12, 1907, in connection with the Salem Cherry Fair (under the auspices of the Marion County Horticultural Society). There will be present at this meeting F. A. Huntley, Commissioner of Horticulture of the State of Washington; W. K. Newell, President, and H. M. Williamson, Secretary, of the Oregon State Board of Horticulture; H. C. Atwell, President, and E. R. Lake, Secretary, of the Oregon State Horticultural Society; John Isaac, Secretary, and probably Edward M. Ehrhorn, Deputy Commissioner of the California Horticultural Commission; C. I. Lewis, Horticulturist, and A. B. Cordley, Entomologist, from the State Agricultural College at Corvallis, besides a large attendance of nurserymen, seedmen, inspectors and fruit-growers. This promises to be one of the most interesting meetings we have ever held and there will be the finest display of Cherries ever shown on the Pacific Coast as a large number of Silver Cups have been offered as premiums.

THE COMPANION'S STORIES FROM AMERICAN HISTORY.

With the story entitled "At Apponattox," which Homer Greene contributes to the June 13th number of the Youth's Companion, will be concluded the noteworthy series of "Stories of American History," which was begun in September last and has run all through the school year. Historical fiction performs the important service of imparting life and reality to the dry bones of records of the past. And the editors of The Companion are confident that these tales from American history have not only afforded entertainment as mere stories, but have stimulated an interest in the actual occurrences and personalities for which they formed a background.

Mr. J. H. Humphreys of the Andorra Nurseries attended the Peony Exhibition at Ithaca and afterwards visited Geneva and Rochester.

C. Willis Ward Cottage Gardens Co., L. I., spent three days at Ithaca in connection with the Peony Exhibition. Mr. Ward is an authority on carnations and peonies.

BLATCHFORD'S
CELEBRATED PLANT GROWER AND LAND RENOVATOR FERTILIZER.

Composed only of the best qualities of Pure Rose Growers Bone Meal, Nitrate of Soda, Sulphite of Ammonia, Sulphite of Potash, Peruvian Guano and Gypsum.

Nurseries bloom with Health and Plenty where it is used.

Send for Particulars.
BLATCHFORD'S CALF MEAL FACTORY,
WAUKEGAN, ILL.
Established at Leicester, England, in 1800.

Cedar Hill Nursery AND Orchard Co.

J. W. SHADOW, Prop., WINCHESTER, TENN.

Apples, Peaches and Kieffer Pears.

We are pleased to announce that we will have our usual, large supply of **Apple** and **Peach**. A good supply of Pear. **Heavy on Kieffer** We grow a general line of Nursery Stock in large quantities, and are in a position to fill large orders. Car load lots a specialty. We solicit inquiries.

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1200 sorts.
150,000 plants.
The largest stock in America.
The best and largest collection anywhere.

Our fields were a sea of color this season, it would be impossible to have them better. Everything bloomed out and proven. Everyone viewing our fields was amazed at their excellence, magnitude, trueness and the great care exercised in having them unmixed, genuine, etc. Whatever we grow we aim to have the very finest, regardless of time, expense, labor and disappointments. The demand to-day from amateurs is for the finest only.

OUR LEADERS—Beadicea, C. Archard, Couronne d'Or, Duchess de Nemours, Festiva Maxima, Mad. de Verneville, Marie Lemoine, M. du Pont, Octavio Demay, Whittlegii.

Dorchester, Eugene Verdier, Floral Treasure, Grandiflora, Jenny Lind, Lady Bramwell, Mad Ducel, Modeste Guerin, Nee Plus Ultra, Perfection, Rosea Superba, Western Beauty.

Bacillus, Caroline Mather, Delachei, Eclatante, Felix Crousse, Purpurea Superba, Rubra Superba, Victor Hugo, Warwick.

Officinalis, Alba Plena, Alba Mutabilis, Rosea, Rosea Superba, Rubra, Tenuifolia.

The best of all novelties and rarities—**Lutea, (Delaveyii golden yellow), Corsica, etc. Aug. Villaume, Avalanche, Baroness Schroeder, Coronation, F. B. Hayes, Gismonda, Goliath, Mikado, M. M. Cahusac, Petit Renee, Pierre Duchartrei, Sapho and all the other extra ones.**

Owing to our desire to see all our sorts bloom out, our list will be a bit late in going to press. In case you are in a hurry or are in search of specific sorts write us to day for special price, we have 25 to 5000 of each of our entire list of sorts.

The finest gladioli, dahlias, cannas, iris, peonias, there is only one best, we aim to have it.

C. BETSCHER, Canal Dover, Ohio, U. S. A.

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WILL BE IN THE MARKET
AS USUAL, WITH

Best Quality Mahaleb,
Black Locust,
Catalpa Speciosa,
and other Seedlings and
Fine Line of Budded Stocks.

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WANTED—Foreman to take charge of Ornamental Department. Must be experienced propagator of ornamental Trees, Shrubs and Evergreens. Steady employment; good pay. References required.

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FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
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All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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VINES

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WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

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ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

WANTED:

ONE OR TWO FIRST CLASS BUDDERS.
Good Wages.

CALIFORNIA NURSERY COMPANY,
NILES, CALIFORNIA.

W. FROMOW & SONS, Windlesham, England.

We have a great assortment (250 acres) of first-class general HARDY NURSERY STOCK, including a fine line of RHODODENDRON, Coniferous Evergreens, HYBRID and other ROSES; Manetti Rose stocks for budding or grafting, and the finest stock in existence of the true GOLDEN PRIVET. Also an immense stock of young stuff, well rooted, for Nurserymen's own planting. Let us appraise your wants for **Fall 1907**, or next spring delivery. Address our **American Agents**, also for latest trade-list,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

WANTED.

Nurseryman experienced in field work and office. References required.

VINELAND NURSERIES CO.
CLARKESTON, WASH.

Send your Subscription for
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When writing to Advertisers mention The National Nurseryman.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown..

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

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Address, W. F. HEIKES, Manager,
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AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

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On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Tall, Giant Flowering and Bronze leaf varieties.

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Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.

Spireas, Van Houtte, A. Waterer, Frobeli, Blue.

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California Privet, 3 ft. up to 6 ft.

Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.

Weigelas Rosea, Rosea Variagata, Floribunda, Candida.

Hibiscus Crimson Eye.

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WEST GROVE, PA.

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BRAULT & SON, Directors,

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Own Root—Leading Varieties

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In Thousands or Car Lots

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GROWER AND EXPORTER OF

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SUCH AS

Pears, Apples, Mahalebs, Mazzards, Myrobolans, Angers Quince, Manetti, Etc., Also a Full Line of Ornamental Stocks. Own Cultures Exceed 20,000,000 Stocks.

Write for special prices, lists, catalog, etc.

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THE NURSERYMAN'S GRADE.
LONG, STRONG WHITE STRANDS IN BRAIDED HANKS.
Stock always on hand. Samples sent free.
BALE LOTS ONLY.

SHIPPING. We have our own Custom House Department. Special facilities at Havre, Antwerp, Rotterdam, Southampton, Hamburg, etc. Lowest rates consistent with perishable nature of stock.

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New and Rare Varieties.

Our collection of Herbaceous Pæonies is superb and stock of same very large, embracing many new and choice sorts Information concerning which may be obtained by letter, and a list of varieties will be published in the August issue of this publication.

Florists and Nurserymen desiring to make plantings of this beautiful flower next fall should get posted as to our stock which no doubt is the largest in this country.

Our Quarterly Wholesale Price List for July will soon be ready, and besides the Pæonies will offer a large selection of **Bulbs for Fall Planting,** such as **Hyacinths, Tulips, Narcissus, Crocus, etc.** If you do not receive it regularly please advise us. It is sent quarterly to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

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Offers for Fall '07 and Spring '08, one of the most complete assortments in the country.

HEAVY on Std. and Dwf. Pear, European, Japan and Native Plum, Peach, Ornamental Trees and a fine lot of Poplars, including 1 yr. whips. Lots of shrubs, vines, roses, evergreens, herbaceous and perennial plants. Also a nice lot of 1 yr. grapes that promise to be good stuff.

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Successors to WM. M. PETERS' SONS,

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CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

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Our stock for Fall 1907 and Spring 1908 includes choice blocks of Cherry, Standard Pear, Quince and June Budded Peach in large grades. We will also have a good supply of assorted Roses and Magnolia Grandiflora. Will be pleased to quote prices now on any of these items. We invite correspondence, for special budding, from buyers of Peach and Plum.

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Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

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One, Two and Three year Apple, Two-year Kieffer Pear, Two year Sour Cherry, One-year Peach, in car-load lots. A good assortment of Japan Plums, one year and Mariana Stocks. Ask for prices.

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Choice stock and sure to give satisfaction. Price very low. F. O. B.

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Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

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All grown specially for the American trade.

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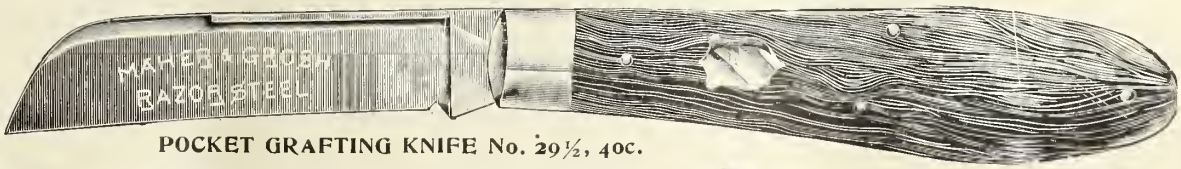

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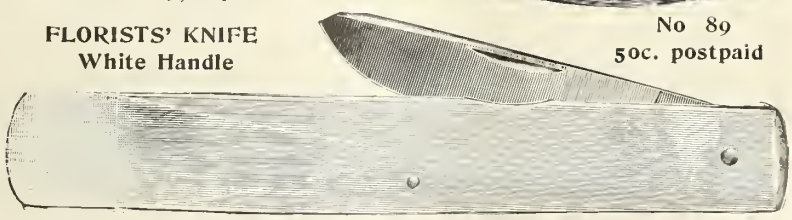

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PEACH SEED.

In going over our records of almost Fifty years in the Seed Trade, we find 1869, 1872 and 1891 were years of almost an entire failure in the Peach Crop, so much so that Baltimore, which usually packs millions of cases, did not put up a single case. Consequently Peach Seed that sold in previous years at $1.00 per bushel, readily found a market at $4.00 and $5.00 a bushel. From all we can learn so far, we find conditions far more serious than in years mentioned, predicting results equally as bad, therefore, in order to protect yourself against a Peach Seed famine, place at once your order for at least a portion of your fall planting. Reasonable prices and seed guaranteed sound.

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Ussy, Calvados, France.

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Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

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We Grow

300 varieties of Conifers, 1 to 4 years old.
1200 varieties of Ornamental Trees and Shrubs, 1 to 3 years old.
1600 varieties of New and Old Ornamental Trees and Shrubs in all sizes.
250 varieties of Climbing Plants.
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Offer a complete general assortment of

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Large Stock of Fruit and Shade Trees,
Small Fruits, Roses, Ornamentals,
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SPECIALTY:
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NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

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Viburnum Plicatum

We have a large stock of this valuable shrub in all sizes.

Pin and Red Oaks

Of all sizes from four to sixteen feet.

We offer one of the largest collections of Ornamental Stock in the country.

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All varieties, largely of Abundance and Burbank.

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Established 1853.

The Best Tree Digger on Earth

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WANTED. The right kind of an office clerk, capable to successfully assist in taking charge of agents in the office of one of the best equipped and paying nurseries in Western New York, and with a view of working his way to an interest in the business.

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Care of NURSERYMAN.

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Exporter of European Forest Trees, Shrubs and Fruit Trees, Seeds.

Specialties: BLACK AND HONEY LOCUST, MULBERRY, MYROBOLANS.

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A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, etc. Forest Trees, Ornamentals, Evergreen Seedlings, Roses, etc. The largest stock in the country. Prices very low. The very best grading and packing. Send for quotations before placing your orders elsewhere. Catalogue free.

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J. H. SKINNER & CO., Proprietors,
Successors to PETERS & SKINNER.

WE OFFER

Apple, Cherry, Peach, Plum, Apricot,

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Forest Tree Seedlings,

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Shade Trees, Weeping Mulberry,

Bechtel's Double Flowering Crab,

Flowering Shrubs, Roses, Vines,

Grapes, Currants, Rhubarb, Asparagus.

Bridgeport Nurseries

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BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

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SPRING OF 1907

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY FEB. 1st.

Our cellars are WELL FILLED and SHIPMENTS can be made ANY DAY. Order early and have goods set aside for you.

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CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

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Specialties for Nurserymen.

THE SPEER GRAFTING MACHINE.

THOMAS BALERS. BOX CLAMPS.

BUD TRANSPLANTER

for Pecans, Walnuts, Chestnuts, Japan Plums, Figs, etc.

BRAGG TREE DIGGER.

BEST CUTAWAY DISC TOOLS

to put ground in shape for planting. Other good things for nurserymen, fruit growers or orchardists.

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has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

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BUDS, BUDS, BUDS, free from San José Scale.

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Fine. 15 inches to 5 feet. 1 and 2 yrs.

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5 to 7 feet.

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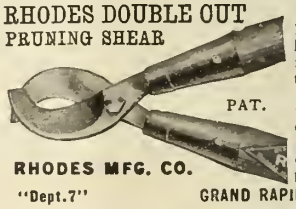

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OFFER FOR EARLY SPRING SHIPMENT

Elberta Peach budded on Natural Peach Seedlings. Carload lots a specialty.

Std. Pears—Nice assortment, Keiffer especially.

Natural Peach Pits, Crop 1906.

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Orange Quince Buds

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly. Write for prices.

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Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

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Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
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Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

Send Your Want List.

101 best sorts

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Strong Plants, True Labels, Quick Shipment.

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Hardy Climbers, Noisettes, Ramblers. Etc.

On own roots.

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2½ and 4 inch pots.

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"They will stand the weather."

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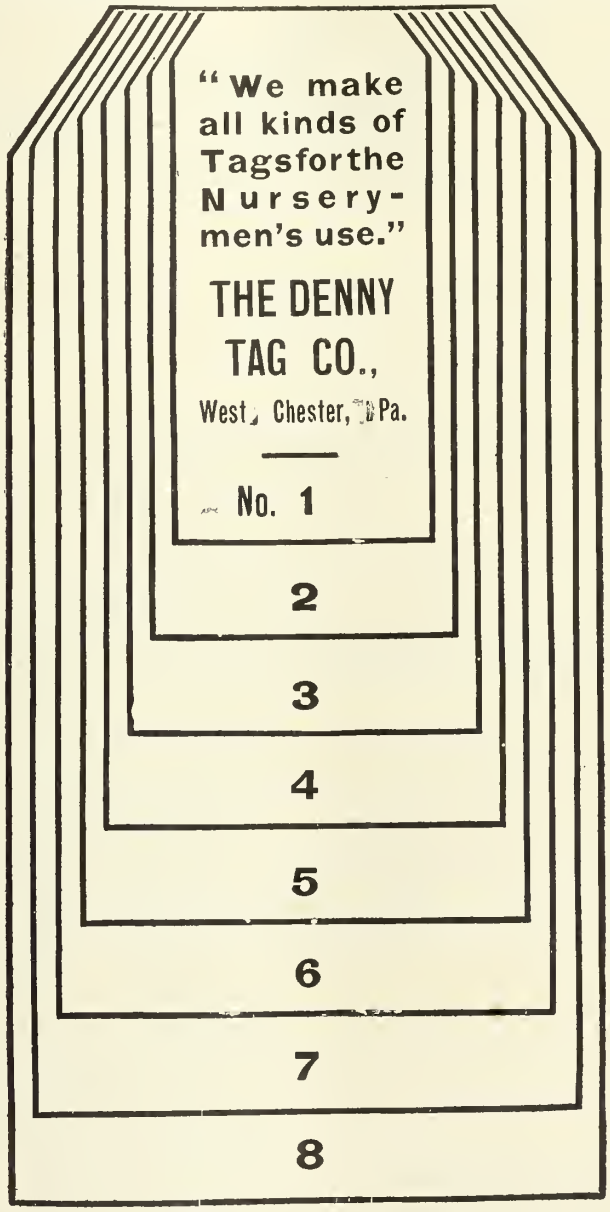

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Sole Agent for UNITED STATES AND CANADA.

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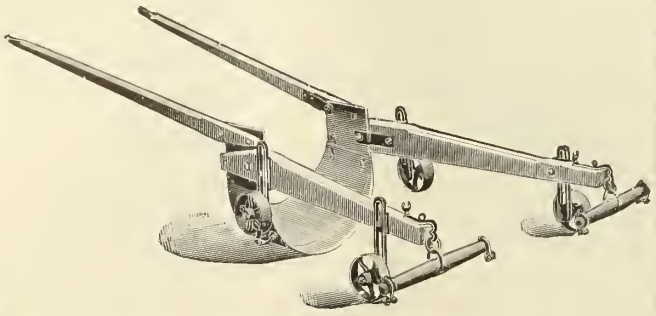
Growers of No. 1 Nursery Stock,

also manufacturers of

Bragg's Common Sense Tree Digger.



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Heavy on Peach

9=16 and up.

Alexander, Bell of Ga., Carman, Chinese Cling, Champion, Crawford's Early, Crawford's Late, Crosby, Early Bell, Elberta, Greensboro, Gold Drop, Henrietta, Lemon Free, Matthew's Beauty, O. M. Cling, O. M. Free, Sneed, Salway, Stump the World, Waddell, Yellow St. John.

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All the leading varieties.

California Privet, all grades. Dwarf Pear, Japan Walnuts, Pecan trees, buds, grafts and seedlings.

Correspondence Solicited.

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Nursery and Florists' Stock

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Field Grown Hardy Roses. Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

A Few of the Items We Have in Large Supply. **Special Prices on Early Orders.**

Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Capt. Hayward.

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Shrubs
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Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in Ameriea. Illustrated Deseriptive Catalogue mailed **FREE** on request.

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Nurserymen—Horticulturists,
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Established 1840. Rochester, N. Y.

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Established in 1846

HEADQUARTERS FOR

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SUPERB COLLECTION OF

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FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

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PAEONIES—Large assortment of named varieties.
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for FALL 1907 and SPRING 1908

Is Now Ready and will be Sent on Request to Anyone in the Trade.

Roses, Clematis,
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Paeonies, Phlox, Iris,
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Are offered in large supply and fine assortment in addition to our usual stock of young, clean, thrifty, carefully-grown

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Visitors are always welcome; we invite personal inspection.

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NEWARK, NEW YORK.
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Let Us Give You Some Especially Low Prices

ON THE FOLLOWING FIRST CLASS STOCK.

LEMONS, AMERICAN WONDER,
FICUS ELASTICA,
KENTIA BELMOREANA,
KENTIA FORSTERIANA,
LATANIA BORBONICA,
GARDENIA FLORIDA,
GARDENIA VEITCHII (For forcing)
BIOTA AUREA NANA,
(BERKMANS' GOLDEN ARBOR VITAE.)

This year we have Ten Acres of This Popular Conifer.

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FRUITLAND NURSERIES, AUGUSTA, GA.
Established 1856. Over 450 Acres in Nurseries.
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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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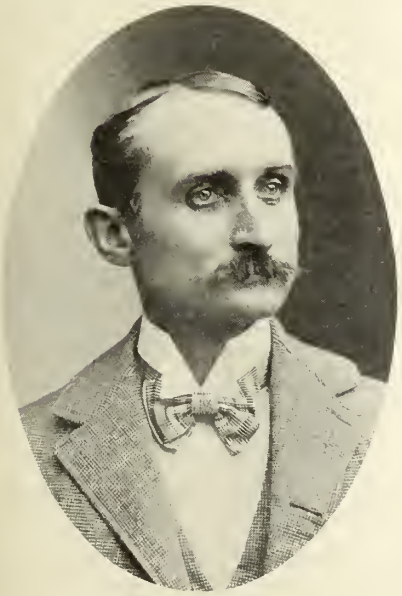
Vol. XV. ROCHESTER, N. Y., AUGUST, 1907. No. 8.

Fruit Marketing, Storage and Transportation Investigations of the Bureau of Plant Industry in the United States Department of Agriculture.

WM. A. TAYLOR, POMOLOGIST IN CHARGE OF FIELD INVESTIGATORS.



MR. WM. A. TAYLOR.

Since 1901, the distinctive field problems in pomology, most of which are of direct economic importance, have been separately grouped for convenience in administration. These comprise those lines which embrace experimental studies of problems connected with fruit marketing, transportation and storage, viticultural investigations, fruit district investigations, and a number of miscellaneous field problems.

FRUIT MARKETING.

Under the general head of fruit marketing, a systematic experimental study of the various questions involved in that subject is being made, with special reference to its bearing on the development of export trade in American fruits. It is becoming very generally recognized that with such fruits as the apple, the pear, the peach, the orange, and possibly some others, the yield in favorable seasons in future is likely to be much larger than has been the case in the past. A wider distribution of these products must, therefore, be accomplished if disastrous gluts are to be avoided. While the larger part of our fruit products will no doubt always be consumed in America, an increased export demand is recognized as one of the most important factors in preventing an undesirable surplus of fresh fruits.

Series of shipments to British ports have demonstrated the entire practicability of delivering there in sound and wholesome condition, early summer apples, peaches and pears of the varieties best adapted to our domestic markets and at times when our surpluses of them are very likely to occur. In a number of instances such shipments have yielded higher net returns than the home markets, even in years of high prices at home. In the case of the Bartlett pear product of New York and neighboring States, a large, and in the main profitable, export trade has already developed along the lines experimentally determined and demonstrated by the Department.

The trans-Atlantic exportation of this fruit from the eastern United States, which practically dates from the Department experiments in 1901-2, has now attained important proportions. Exact statistics of such exports are not available, owing to the fact that no official record of the varieties exported or the regions from which they come is kept. The growing importance of this trade has resulted, however, in the separation since July 1, 1905, of pear values from those of the other fruits with which they were previously included. These values, as shown by the Monthly Summary of Exports of the Department of Commerce and Labor for the six months July to December, 1905, are as follows:

VALUE OF EXPORTS OF PEARS FROM THE UNITED STATES

July 1 to December 31, 1905.

MONTH.	VALUE.
July	$ 18,332
August	32,331
September	192,000
October	180,187
November	94,369
December	48,302
Total July 1 to Dec. 31, '05	$565,521

The fact that the California pear crop in 1905 was the lightest for many years, resulted in a much smaller exportable surplus than usual

MR. G. HAROLD POWELL.

from that State, so that in the absence of exact knowledge, it may fairly be assumed that the exports of eastern-grown pears for the year exceeded $500,000 in value. The beneficial result to the fruit industry of the withdrawal of this portion of the crop from our domestic markets can hardly be estimated.

The profitable exportation of peaches is considered a more uncertain matter, largely because of the fact that the peach is not yet sufficiently well known to the great mass of population in northern and western Europe to be in steady and large demand. The fact that in favorable seasons Elbertas, from points as diverse in their climatic conditions as Georgia, Oklahoma and Connecticut, have been delivered in London in good order, and have netted their growers values nearly or quite equal to home markets, is sufficient to indicate that the field is a promising one. Early apples, from those districts like the Chesapeake Peninsula, which can place their product under refrigeration in the foreign markets within ten days after leaving the tree, are worthy of further attention in particular localities, especially in seasons when the European crop of summer fruits and the Australasian crop of winter apples, which come into competition with them, are light.

But far more important than any of these is the export trade in winter apples. In all but the years of our very lightest crops the export demand has in recent years been the most important factor in determining the prices of sound fruit during the autumn and winter. For this reason, particular attention has been paid to such questions as size and style of packages, method of packing, suitability of variety to market, etc., as well as to the introduction of American apples to markets where they have not hitherto been used in commercial quantities. Series of shipments of winter apples from representative apple sections, packed in barrels and boxes, both with and without wrapping, comprising both graded and ungraded fruit, are now being made to the principal European seaports to obtain actual experimental data on these vexed questions, which it is practically impossible for the grower to determine for himself except through long and frequently costly experience. Progress reports of this work are given out from time to time, through papers before horticultural societies and similar organizations, and will eventually be summarized in bulletin form for distribution.

FRUIT STORAGE AND TRANSPORTATION.

Under this head a comprehensive investigation of the entire question of the handling of fruits for transportation and storage, has been in progress under the direction of Mr. G. Harold Powell, for the past four years. Experiments conducted with the more important commercial varieties of apples, pears and peaches, in some of the leading districts for those fruits, have demonstrated the necessity of picking at proper stage of ripeness, carefulness of handling, promptness of forwarding and withdrawal for consumption before the product has past its stage of full maturity. Perhaps no fact developed in this investigation is of greater fundamental importance than this, namely, that the durability and value of fruit destined for cold storage are as vitally affected and as surely damaged by careless handling in any stage of handling or shipping, as in the case of fruit destined for immediate consumption. The loss in the former case is, in fact, frequently greater than in the latter, because of the additional expenditure for freight, storage charges, etc., and the inevitable risk of deterioration before an opportune time for sale occurs.

To quote from the report on this work for the last season:

"The experiments during the four years have shown conclusively that a large proportion of the difficulties in apple storage may be overcome by more rational handling of the fruit before it is stored, and by giving it better care in some respects after it reaches the storage house. Apple scald, one of the most serious storage troubles, is not yet well understood, but the experiments have again demonstrated that it can be controlled commercially by picking the apples when hard-ripe, instead of prematurely, as many winter apples are picked; by storing them quickly after picking, in a temperature of about 31° F., and by selling the more susceptible varieties comparatively early in the season. The premature ripening of apples in storage is often the result of delaying the storage too long after the fruit is picked. These investigations continue to emphasize the supreme importance of quick storage after the fruit leaves the tree. The "slumping" of apples in the barrels, due to the development of the common blue-mold fungi in the spring, is generally the direct result of rough handling of the fruit while it is being picked and packed. The skin of the fruit is bruised, and the rots enter and grow vigorously if the fruit is not stored quickly in a cold temperature after picking. The investigations continue to emphasize the need of uniform temperature as low as 31 to 32° F., for long-term storage, and of pure wholesome air in the warehouse if the flavor of the fruit is to be retained without contamination. Cold-stored fruits are frequently injured in quality through the lack of proper ventilation of the storage warehouse. This side of the storage question needs further investigation, which cannot be satisfactorily made until the Department has an experimental storage plant."

The effect of the environment under which fruit is produced, upon its keeping quality in storage, is being studied experimentally with fruit from trees of different ages, in different soils and from different climates. In co-operation with the New York State Experiment Station, a comprehensive investigation of the influence of various methods of culture, such as clean cultivation vs. sod culture, etc., is under way. The comparative value of a large number of varieties of apples from different apple districts has been studied for the past four years with a view to determining their relative fitness for storage.

During the past year a special study of farm storage

houses has been inaugurated, and will be continued for a sufficient time to obtain light on the relative efficiency and economy of farm storage houses cooled with ice, ice and salt, brine cooled with ice and salt, and mechanical refrigeration in eastern New York. It is believed that in certain parts of the North a distinct advance in fruit storage can be made through the utilization of properly constructed storage houses where the fruit can be held by the owner in first-class condition for use, as needed by his markets, at less risk and expense than are involved in storage in a plant outside of his personal observation and control.

The practicability of freezing small fruits for use by bakers and confectioners in flavoring ice creams, sherbets, etc., and for use in pies, is also being investigated. Such quickly perishable fruits as strawberries and raspberries, which can only be held in good condition in ordinary storage for a very few days, are found to be preserved in practically perfect flavor and condition for several months by freezing quickly before they are overripe. This new phase of the cold storage business is already becoming of large commercial importance in some of the larger cities.

FRUIT TRANSPORTATION.

For some time past the conditions directly concerned in fruit transportation have been under investigation, and these have now assumed such importance that they are being given special attention. The behavior of peaches in refrigerator cars, as shipped from Georgia and California, is being thoroughly investigated, both at shipping point, in transit, and at destination. In this connection, thorough tests of the pre-cooling of fruit intended for such shipment are being made. In the case of peaches in Georgia, it has been found that a large part of the rot in transit to northern cities occurs in the two upper tiers of carriers in the car, the three lower tiers usually arriving at destination in sound condition. This superior condition of the lower tiers is unquestionably due to the very rapid cooling of the fruit in the bottom of the car, and emphasizes a conclusion previously reached in these investigations—that quick cooling after picking is a fundamental requirement in successful fruit storage or shipping operations. In both Georgia and California the preliminary work along this line has been done in refrigerator cars, on tracks which were equipped as stationary refrigerators, in which the fruit could be quickly reduced from the temperature of the outside air to about 40° F., by the use of ice and salt. Fruit cooled in this way, before being loaded into the cars for shipment, was found to arrive at destination in much better condition and to remain sound longer after arrival at destination than that shipped under ordinary icing, even where well-ripened fruit was used in the pre-cooling tests, and prematurely picked hard fruit for the ordinary shipments.

This line of work, of course, points toward a radical change in some of the present commercial methods of shipping, and further tests are needed before investments in pre-cooling plants could safely be advised.

In this connection an investigation of the causes of decay in oranges and lemons in transit from California to Eastern markets is now under way. The losses from this cause are said to have aggregated not less than half a million dollars a year for several years, and to seriously menace the future of the industry. As the result of systematic observation of the practice of growers and packers in the handling of oranges, it was discovered early in 1905 that about one-fifth of the orange crop is made susceptible to decay by improper handling before the fruit is packed. These injuries are caused by the puncture of the skin with clippers used in cutting the oranges from the trees, by punctures from stems left too long, by finger nail cuts in handling, and by other mechanical injuries in the handling of the fruit in orchards and packing houses. Experiments having demonstrated that from ten to fifty per cent. of these injured fruits are likely to decay if favorable conditions of heat and humidity develop, growers were notified of the danger, and as the industry is quite thoroughly organized, the information was immediately put into practice, with the result that one of the leading growers and shippers of southern California estimated, in the spring of 1905, that the Department investigations in that section had saved the industry at least $200,000 on the last crop. Extensive tests in pre-cooling oranges, both in stationary storage houses and in cars on track, by blowing cold air through them after they are filled with fruit, until the temperature of their contents is reduced to a satisfactory point, have demonstrated that with oranges, as with peaches, quick cooling is an important factor in checking the ripening processes and in preventing the development of rots.

KIND WORDS.

W. W. Stanley, Campbell, Mo. Find enclosed check for $1.00 for the renewal of my subscription for the NATIONAL NURSERYMAN. I must say it is one of the best journals of its kind published in the United States and every nurseryman should have it on his desk.

T. W. Waring & Sons, Tulsa, Ind. Terr. Enclosed herewith please find P. O. money order for one dollar in payment of our subscription from Feb. '05 to Feb. '06. We could not do without our "NATIONAL NURSERYMAN" for many times its aunual cost.

Thos. J. Bolger, Geneva, N. Y. Enclosed find one dollar to continue my subscription for the NATIONAL NURSERYMAN, for the coming year. The journal is all right; I would not be without it.

P. J. Berckmans Co., Augusta, Ga. Your esteemed favor of the 1st received. We enclose herewith $1.00 to renew our subscription to the NATIONAL NURSERYMAN. We cannot get along without it. It is a most excellent journal and we wish you every success.

James Cureton, Austell, Ga. Please find enclosed $1.00 to renew my subscription for another year. I like the journal and could not run business without it.

B. E. Field & Son, Freemont, Nebr. Enclosed please find our draft for $1.00 for which please renew our subscription for your paper for another year. We are very well pleased with your work during the past year.

EDITOR NATIONAL NURSERYMAN:

No doubt many of the members of the American Association are interested in the South Dakota Bond Law. This matter was referred to the Legislative Committe at the Detroit Convention.

Since the appointment of the Committee, it has been at work energetically on the matter through attorneys, and it was hoped to be able to report something definite in season for your August issue but that is not possible at the present writing. We can say, however, that the matter is under way, and is being crowded along as rapidly as possible, and it is hoped that by September 1st, we will be able to report something definite. Yours truly, WM. PITKIN,

Chairman of Legislative Committee.

Correspondence.

UNIFORM NOMENCLATURE.

EDITOR NATIONAL NURSERYMAN:

Every now and again someone like Mr. Theo. Foulk urges this. I presume everyone admits its advantage, but very few set about attaining it. In thirty or more years I have only known of one nurseryman who has made the effort—with the assistance of Mr. Wilhelm Witter.

Maybe nurserymen don't know how to set about it. Please let me tell them.

There is an establishment called Kew Gardens, in England, whose business it is (*inter alia*) to be acquainted with the standard names of all the plants of the world. The late Chas. Darwin left a large sum of money to straighten out the confusion and secure these standard names, which, with all the known synonymy, were published in a work called the "Kew Index," which is expensive. Only a few nurserymen have it. The Gardens, however, publish what are practically supplements of the Index, and these give the plants in cultivation. These little books are called "'Kew Guides." They are not advertised, and are hardly at all known in this country, not even to some of the Kew men in it. The nomenclature is the best used the world over.

Now: The lists for hardy trees and shrubs, conifers and ferns, both hardy and tender, costs less than $2—say $2. The lists for sub-tropical and tropical plants, such as are planted in southern portions of the United States, cost less than $1.25—say $1.25.

Then why not use them, and ask McFarland to use them?

I asked this gentleman why he didn't, some years ago, and he said he had to take copy from his customers—or something like that.

I'm afraid "customers" generally are a precious contumelious lot when it comes to plant names. But, at any rate, there is no excuse for it. The whole of the ornamentals can be standardized by sending $2 to $3.25 to the Director, Royal Gardens, Kew, London W., England, for these books, and using them when the catalogues are revised and printed.

JAMES MACPHERSON.

Trenton, N. J.

P. S.—Neither Nicholson nor Bailey can be *relied* upon for standard names.—MacP.

FROM OLD KENTUCKY.

Greeting to the American nurserymen from the land of the blue grass! But it is hardly a word of cheer. March came in open, and its last three weeks were hot as Borneo. April was dry as a bone, and cold as Lapland. The stimulation of a short day of sun and a long night of heat, sprung every bud into a tenderness of life not remembered in a long career. The destruction of the intense frosts of April, coupled with drying wind and bright sun, was terrific, and these conditions prevailed generally in the Ohio valley. We are nursing our sores—the loss of things already made and ready to sell, and those that were our hope in the future. Except the spring of 1881, no packing season was so unsatisfactory.

Now as to the future: The price of labor was so strongly increased, and that of all things else, that it behooves us to accept the fact that the value of our goods should advance in proportion. If we do not appreciate the exigency of the occasion, our plaint will be that of Peter: "We have fished all the year and caught nothing." Our nets are empty. I do not believe in combines, or any unhallowed or unworthy combination, but I do believe that a laborer is worthy of his hire, and ought to have, and is entitled to a fair recompense for his effort.

Will this personal reminiscence be forgiven?

I am descended from a family of nurserymen, beginning on one acre in 1768. We are scattered over three continents—by war, and its incident poverty, mostly. Sons and daughters have served their countries and their faiths consistently, each in a right way. On this side they have marched under a bonny blue flag, or the one that bears a single star, or been ready to do so, and to bind the gaping wounds of shell or shot. On the other, tri-color or crescent were on equal impulse. These may have achieved the summit of their ambition; but those who swung the pruning hook and thrust the hoe, have ever been the story of saint and soldier. We are not at this time exactly happy in Kentucky, but this prophet looks into the future through the history of his own family and offers this counsel and this prophecy: Let us have faith and hold fast. The filler of an orchard or the maker of a garden is anointed in a divine right, and ever shall he hold the land. J. F. HILLENMEYER.

TARIFF.

EVERGREEN SEEDLINGS.

A decision adverse to the government was rendered by the United States Circuit Court, Southern District of New York, on May 14, 1907, in the case of the United States against P. Ouwerkerk. The view of the court is that "Species of the laurel (Aucuba japonica and Kalmia latifolia) and of the rhododendron (Rhododendron ponticum) which retain their verdure throughout the year, are 'evergreens,' within the meaning of paragraph 252, Tariff Act of 1897; and under said paragraph, seedlings of those plants are dutiable as 'evergreen seedlings,' rather than as 'nursery stock.'"

The case relates to three varieties of plants, designated as Aucuba japonica, or Japanese laurel, Rhododendron ponticum, and Kalmia latifolia, or American laurel, which the board held dutiable under the provision of "evergreen seedling," in paragraph 252, Tariff Act of 1897, rather than as "nursery stock," under the same paragraph, as classified by the collector. The government's contention

as stated in the petition, is that the board was in error in holding that the word "evergreens," as applied to plants, covers not only those commonly known as "evergreens," but also other plants which retain their verdure through all seasons, among which are the rhododendrons and laurel in question.

PRESIDENT HILL IN THE EAST.

President J. W. Hill visited Rochester on the 18th of July, calling upon friends in that city, and afterwards making a hasty run to Dansville. While in Rochester he made a tour of the park system, and was much struck by the beauty of the city parks and the variety of trees and shrubs they contained. Highland Park impressed him particularly. President Hill is chairman of a civic committee, charged with the municipal re-organization of the city of Des Moines.

A NATIONAL FRUIT EXCHANGE.

A national fruit exchange was organized late in June and incorporated under the laws of New Jersey. The purpose of this organization is to handle the cranberry crop of the country. It will act as agent for the New England, the New Jersey and the Wisconsin sales companies. The president is Dr. William L. Wilber, Trenton, N. J.; J. Howard Burr, Treasurer; M. Chaney, Des Moines, Iowa, secretary. One of the purposes of the organization is to grade the berries carefully as to size, color and keeping qualities. The company will act as a general instructing agent for the various growers' associations of the country.

AUSTRALIAN APPLES IN AMERICA.

Fruit papers record the arrival of about 1,000 boxes of Australian apples in New York early in June. It is not probable that these apples will make much stir on the market, as they are small and comparatively unattractive.

The light crop of peaches bring large prices and the early shipments of Carmens from Fort Valley and Marshallville brought $3.50 per case. Canners were paying as high as $1.00 a bushel for canning stock about the first of July.

FRUIT FROM CALIFORNIA.

An exchange records the fact that the first box of cherries from California for the season of 1907 left Vacaville on April 22nd, arrived in Philadelphia on April 29, and was sold for $30. The second box arrived on April 30 and sold for $10.50. The first carload of cherries from California left for New York on May 5th. This was also from the Vacaville district. The season in that region is slightly ahead of the season of 1906.

GRADING APPLES.

Manager Shepard of the Hood River (Ore.) Apple Growers' Union thus explains the new system of grading apples. Three circular holes are cut in a board 2¾, 3 and 3¼ inches in diameter and the board placed in front of the sorter, being suspended within easy reach of the hand. As the apples are wiped, their size can be quickly determined by the aid of the board, and they can be placed in 3, 3½, or 4½ tier boxes at once instead of all being thrown in one box for the packer to re-sort. All apples larger or smaller than the holes in the board go into special boxes provided for them. The great advantage of this system is that the packers can pack directly from the box, or if the apples are placed on the packing table can avoid having all sizes on it at once, which means a great saving of time and the elimination of more or less bruising of the fruit in being handled over several times to get the various sizes. The less bruising they have the more the apples will bring, and when it becomes known the more buyers will be willing to pay.—*Country Gentleman.*

Obituary.

W. C. Bennett, proprietor of Rose Hill Nursery, Scotland, Ind., died on May fourth. A notice of his demise has just been transmitted to this office.

ROBERT HAMILTON.

There died in Montreal recently a man who has been very closely associated with fruit growing in Canada for many years. This man was known as the Rev. Robert Hamilton of Granville, Quebec. He began life as a clergyman, but his innate love for the plant drew him to the farm. At Granville he had established a large experimental orchard and was closely associated with the late Charles Gibb in testing Russian and other hardy fruits. For the past seven or eight years he has had charge of the fruit department of the exhibitions under the auspices of the Dominion government. His loss will be severely felt throughout the Province of Quebec and the colder regions of Canada.

MAXWELL TYLDEN MASTERS.

There died in London on the last day of May a very remarkable man. For many years Dr. Masters was editor of the *Gardener's Chronicle.* He was known the world over as a periodical writer and as a horticultural author of distinction. He might be described as an economic botanist. Dr. Masters inherited his horticultural and scientific instincts. His father was a noted horticulturist and landscape gardener. Among the works which Dr. Masters left behind him as a record of his life interests are "Vegetable Teratology;" "Botany for Beginners;" and "Plant Life." He contributed to other important botanical and horticultural works, including Oliver's "Flora of Tropical Africa;" Hooker's "Flora of British India," The Encyclopedia Britannica; The Pinetum Britannicum. Personally Dr. Masters was an enthusiastic, discriminating, conscientious horticulturist and botanist. He has been the means of interesting many young men in this field of labor. In his death the entire horticultural world has met with a severe loss.

Eugene Louis Celestin Barbier of the firm of Barbier & Company, Orleans, France, died at his home on June 22nd in the 58th year of his age.

HERE'S A GOOD ONE.

BANANAS GRAFTED ON CACTUS, ORCHARD PLAN.

Reno, Nev., July 20.—Report is current that a number of Goldfield capitalists and promoters have organized a wealthy syndicate for the purpose of establishing the banana industry in the country surrounding the great gold camp. The idea of the new company is to use the Joshua trees, a species of cactus which abound in that vicinity, for the production of the fruit. The agricultural and horticultural experts of the United States Government, as well as those connected with the leading universities and agricultural colleges of the country, have been conducting experiments in grafting and the budding of trees for several years with this in mind. This science has so far progressed now that the bananas can be grafted upon the Joshua trees.—*New York Herald.*

Now is the winter of the nurseryman's discontent made glorious summer by the knowledge that the stock is making record growth, the orders are coming in, the last note has been retired.

STOLEN HUMOR.

"Money is the root of all evil," "yes, and it grows best by the grafting process."—*Baltimore American.*

An English tourist traveling in the north of Scotland far away from anywhere, exclaimed to one of the natives, "why, what do you do when any of you are ill? You can never get a doctor." "Nae sir, replied Sandy, "we've just to die a natural death."

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

EXTENSIVE CAULIFLOWER CULTURE.

It is stated that a Long Island cauliflower grower intends starting a 7,000-acre cauliflower farm near Denver, Colorado. He has made a lifelong study of this crop, and having an intimate knowledge of seed-growing and of the practical phases of the industry, he expects to make a commercial success of his venture.

COMPULSORY SPRAYING.

Entomologist R. I. Smith, on behalf of the State of Georgia, recently took action against certain peach growers in Gordon County, who had been ordered to spray their trees to destroy San José scale, and had neglected to do so. In the county circuit a decision has recently been rendered against the fruit growers. Whether there will be any appeal from this decision is not stated. Decidedly, the entomologist has the best of the first round.

SCALE SPREADING.

Reports from all peach-growing districts in the province of Ontario report the gradual, continued spread of the San José scale. Some years ago the Niagara district was the center of infestation, but it now appears that the scale is as widely distributed in many other townships as it is in this one where it secured its start. Notwithstanding the vigorous efforts of the Department of Agriculture, the enemy continues to widen its territory and invade new regions.

ONTARIO FRUIT GROWERS.

The Ontario Fruit Growers' Association issues its thirteenth annual report of the fruit experiment stations of Ontario. This shows that there are eleven fruit stations distributed over the province. Each of these stations has its specialty. For instance, in the southwestern part, peaches, grapes and vegetables are the leading features. In the northern part, hardy apples, plums, and small fruits receive the major portion of the experimenter's attention. The report contains notes on varieties from these eleven stations, and is therefore a publication of considerable importance to intending planters.

THE SOUTHWEST.

The Southwest is rapidly becoming a great truck-producing region. The railroads are supporting the growers and are exploiting the industry. Recent statistics compiled by the railroads of Texas show the acreage devoted to truck-growing to approximate 369,000 acres. This area is distributed as follows: Irish potatoes, 108,320 acres; onions, 5,000; cabbage, 28,960; watermelons, 56,000; cucumbers, 11,000; tomatoes, 73,000; strawberries, 45,000; cantaloupes, 22,000; miscellaneous vegetables, 20,000. Over 100,000 acres of the State's land are devoted to peach orchards, and about 20,000 acres to apple orchards. In the South Panhandle of Texas sub-tropical fruit culture is assuming a phase of considerable importance.

J. M. THORBURN AND COMPANY.

In his interesting paper, entitled "Reminiscences of the Seed Trade," Mr. F. W. Bruggerhof, of the above company, noted the fact that Grant Thorburn, the founder of the firm, started with three pots of geraniums, a monthly rose, and fifteen dollars' worth of seeds. This was late in the eighteenth century. In 1847 turnip seed sold at twelve and a half cents an ounce. In 1822 there were nine varieties of snap beans listed in Thorburn's catalogue. There were twenty varieties of cabbages. The number of varieties rapidly increased after that date, and to-day the principal difficulty is to know what is really worth while.

THE APPLE CROP.

The situation towards the end of July indicates that the apple crop of 1907 will be considerably below the average in quantity. Reports from the Southwest indicate that not more than twenty-five to thirty per cent. of a crop may be expected. Michigan and the Virginias are also very light, and Ohio does not promise well. New England, and particularly Western New York, Ontario and the Maritime Provinces are going to give the bulk of the apple crop of this year. The reliable lake counties of Ontario in New York and the Province of Ontario, are again to the front with a fair to good crop, and if nothing disastrous intervenes, this region should reap excellent returns from its apple orchards.

CROWN GALL.

We are pleased to present in this issue an article in the way of a supplement to the interesting contribution of Professor Hedgcock, on the subject of root-gall of the apple. Professor Phillips, of the Virginia Experiment Station, has been making a study of this peculiar affection of apple roots for several years, and presents in another column an important addition to our knowledge of the subject. The experimental evidence presented by Professor Phillips places considerable responsibility on the scion as a means of transmitting the several forms of root troubles; and the suggestions which he makes—that nurserymen ought to be careful in avoiding trees affected with crown gall or other root trouble in scion cutting—is very important.

We shall be glad to open our columns to additional experience and discussions on this apple-propagating difficulty, which is really a grave trouble in southern regions.

DRIED FRUITS AND THE PURE FOOD LAW.

California fruit growers are considerably agitated over the enforcement of the clause in the pure food law which prohibits the use of sulphur in connection with the drying of prunes, apricots, and the like. A meeting of fruit growers was held at San Francisco early in July to protest against the enactment and enforcement of this clause. The following resolution was passed: "At a meeting representing many thousands of growers and shippers in the dried fruit industry of California, it is unanimously decided that the United States Department of Agriculture be urged to postpone all action upon the use of sulphur in the preparation of such dried fruits as are now prepared under our methods in California until some efficient substitute is discovered. Otherwise our industry will be sacrificed." A representative of the California fruit growers was despatched to Washington for the purpose of interviewing the authorities there. The act is now a law.

SOUTH DAKOTA LAWS.

An interesting discussion which occurred at the Detroit convention, bore upon the equity and constiutionality of the law recently passed by South Dakota, governing the sale and admission of nursery stock into that State. Fortunately, a member of the committee on legislation, Mr. William Pitkin, of Rochester, had taken the matter up with the Association's attorneys, Messrs. McGuire & Wood, of Rochester, and was able to present a legal opinion. Messrs. McGuire & Wood took the position that the law was both unworkable and unconstitutional. Its unconstitutionality appeared to rest upon its absolute unreasonableness. Mr. Pitkin advised that the Association make a test case and that the legislative committee be instructed to proceed with such case, which the Association, on motion of Mr. Hill, agreed to do. Mr. Whiting, of Yankton, S. D., explained that while he was in sympathy with such restrictions as would protect South Dakota planters from being flooded with worthless varieties from the East, yet he was not in accord with many of the provisions of the act. Certain it is that some of these provisions are so sweeping and so comprehensive that, as a member of the society expressed it, no one not possessed with omniscience would be able to meet them.

AMERICAN PEONY GROWING.

The past ten years has noted a tremendous increase in interest in this old-fashioned flower of the farmsteads and the villager's garden. It is being rapidly popularized by the American Peony Society. An important piece of work promoted and assisted by this organization is the systematic study of the nomenclature of the group now being jointly made by the society and the Department of Horticulture of Cornell University. This work has been going on for some two years, and the first item of progress to be recorded is the publication of a check list of varieties. This check list contains a correct list, correct as to spelling and reference, of all varieties described in horticultural publications or in authorized nursery lists of the past and present. The list contains about 2,000 names and comprises a pamphlet of 250 pages. It is issued free to the members of the peony society. The next step in this work will be a careful study of varieties with a view of eliminating synonyms. These varieties are now growing on the test grounds of the society at Cornell. Several hundred will bloom this year, of which a large number were on exhibition at the time of the society's meeting last month. The peony is certainly a worthy flower, and the work of popularizing it can hardly be overdone.

FRUIT INSPECTION IN CANADA.

The operation of the Canadian Fruit Marks Act brings out the ingenious qualities of some men in evading governmental regulations. It has been found that a few shippers are wilful law breakers, and that the maximum fine of one dollar a barrel is insufficient to deter them. In one case where a Dominion inspector marked a consignment of apples in a shipper's warehouse, he suspected that an attempt to re-mark them might be made. In order to ascertain whether his suspicion was correct, he made a point of being at the place of destination when the consignent arrived, and found that the shipper had placed a man in the car who busied himself en route by changing the marks. This particular shipper, it is said, has been convicted four times during the past shipping season. In this case he was fined $80 with costs, which amounted to $40 additional. It is possible that instances of this kind will cause a revision of the Fruit Marks Act and the raising of the penalty.

FRENCH VINEYARDISTS.

A very curious situation was forced upon the French government by the action of the French wine growers during the month of June. The government found itself with a part of the republic in a state of rebellion and anarchy. This part was restricted to the vine-growing regions. It is claimed that the cause of the disturbance is due to the fact that the government permits the manufacture of an adulterated wine which has so invaded the field of the genuine product as to make the manufacture of the real article unprofitable. There has been a reduced sale of fruit for wine-making purposes, and at very much lowered prices. The vine growers retaliated by going into open rebellion, refusing to pay taxes, or recognize government interference. The arrest of the leaders of the movement only added fuel to the fire at first, and the government found itself in a very embarrassing position. Finally, the revolutionists disbanded, seeing the futility of organized resistance. Undoubtedly, the reaction will bring some relief to the wine growers.

ONTARIO GOVERNMENT ASSISTS SPRAYING.

The Canadian government is much more paternal in its care of agricultural enterprises than any other government in the country. The Minister of Agriculture for Ontario has recently asked the legislature of that province for a grant of $6,000 to be used in promoting the spraying of fruit trees. The plan is to grant a bonus of $50 to any group of five or more farmers who will unite to form a fruit growers' association for the purpose of buying and operating a power spraying outfit during the season of 1907. The associations are not required to incorporate, but merely to unite and agree to purchase and operate one of these machines. The number of associations to receive assistance of this kind during the present season will be limited to 100, and each association must agree to spray not less than twenty-five acres of fruit trees. Before receiving the grant, a government inspector will visit the locality and satisfy himself that the conditions of the bonus have been complied with. The granting of the bonus does not affect the ownership of the pump, but is intended merely to stimulate the spraying of fruit trees.

A PROMINENT PLANT BREEDER.

For many years Mr. C. G. Patten, Charles City, Ia., has been an enthusiastic improver of fruits. The work which he has done has been of a sound, fundamental character, and has been directly associated with the improvement of apples for the somewhat trying climate of northwestern Iowa. Mr. Patten's success in breeding apples has been marked, but that line of pomological endeavor has been only one of the fields which he has explored. The native plum has been studied by him with perseverance and success. The result is that plum growers in the Northwest have several varieties added to their list as a result of his efforts.

We learn by a recent article in the *Iowa State Register* that Mr. Patten is turning his attention to field crops, and is now investigating the matter of breeding cold-resistant varieties of corn. He has observed that in fields cut by late frosts there are always some stalks which show relative immunity to injury by the low temperature. He proposes to select these and breed from them. This is an excellent field, and if a variety of corn capable of withstanding a few degrees of frost could be developed, it would mean great things for the wonderful corn belt of the Mississippi Valley.

IMPORTANT POMOLOGICAL CONGRESS.

American Pomological Meeting at Jamestown, Va. There will be an important gathering of horticulturists at Jamestown the last week in September. At this time the American Pomological Society will hold its 30th biennial session; the Society for Horticultural Science will meet in conjunction; the National Nut Growers' Association will also hold their sessions the same week; and the summer meeting of the Maryland Horticultural Society will occur at the same time.

A very attractive program has been prepared for the meeting of the American Pomological Society, which will include prominent speakers throughout the United States and Canada, and several representatives of experiment stations and agricultural colleges in Britain and Europe. The meeting of the National Nut Growers' Association immediately follows that of the Pomological Society. Altogether it will be a week marking a great horticultural congress. Those intending to visit Jamestown in the autumn should plan to go at this time. The American Pomological Society will meet in the convention hall of the Exposition, and will maintain headquarters at the Inside Inn. Wilder medals will be given for worthy exhibits of fruit. Further information may be obtained from the secretary, John Craig, Ithaca, N. Y., or the president, L. A. Goodman, Kansas City.

EDITOR NATIONAL NURSERYMAN:

The Texas State Horticultural Society and Texas Nurserymen's Association held a joint session at College Station, Texas, on July 23rd, 24th and 25th. The attendance and interests were good. Propagating, managing and marketing in orchard work were demonstrated particularly, and "fruit packages" were under lively consideration.

The Committee having in charge the revision of the Inspection Law, reported that they had done their work, but that the Legislature during its last session, failed to enact the suggestions into law. Therefore, the old law as it stood in 1905 and 1906, is still in force.

The State Horticultural Society will hold a winter meeting at Abilene, Texas, during the winter months, the Executive Committee to select the exact dates. Yours truly,

TEXAS NURSERY COMPANY,
Per JNO. S. KERR.

Note and Comment.

THE PEACH CROP OF 1907.

Notwithstanding the frosts and rumors of frosts with which the columns of the newspapers during May and June were plentifully sprinkled, a considerable peach crop finally appeared. Oklahoma and Arkansas seem to come to the front with a considerable tonnage. The Arkansas crop was located largely in the Ozark region. New York will undoubtedly contribute its quota in due time. The crop will be very much later than usual, but the Lake Ontario counties can be depended upon to do their share.

The June issue of the *Rural Californian* contains a very appreciative sketch of the life and work of George C. Roeding, the well-known president and manager of the Fancher Creek Nurseries of California.

FUMIGATION STUDIED BY CALIFORNIA FRUIT GROWERS.

A committee of the Clairmount (Cal.) Horticultural Club was appointed some time ago to study the influence of fumigation methods in fighting the black, red, and purple scales of the orange. A report of this committee has been recently made public. The gist of the report is as follows:

Fumigate from September 1st to February 1st, only at night; never when wet or rainy, never when there is a "norther," and only when the grove is in the best condition possible. Do not commence before six o'clock p. m.—five will do on cloudy days—and do not leave the tents on the trees after daylight in the morning.

The best tents are the octagonal, sheet tents, made of eight-ounce, double-filled duck, sewed with double seams, and the best linen thread. These are easiest handled and most easily moved. For trees not over 15 feet in height, tents 41 feet wide are desirable, but for larger trees tents 45 feet, or wider, are required. An outfit of from 33 to 35 tents best serves economy.

To prevent ruination by mildew when the tents are damp, they must be dipped. This is done in a large tank, made either of galvanized or boiler iron. These should be 3 x 10 feet and 2½ feet deep. The bottom should be rounded. This must be on a good arch so as to permit a fire under it. The smoke pipe or chimney of arch must be high to secure draft. A derrick made of three poles above the tank, supplied with pulleys and rope, makes dipping easy, and permits raising of the tent and dripping after the dipping is completed. It also aids in keeping the tent from the bottom of the tank and burning, which must be avoided.

The tank is filled to near the top with water, made very dark by adding a half barrel of oak extract or tannin. This is well stirred. The tannin should not be added till the water is boiling. The tent is lowered into the tank of boiling water and extract, and boiled for half an hour. It is now raised from the water, and after dripping ceases it is spread out to dry. The tank is filled again, and the tannin is added till the color is a reddish brown, and then another tent may be dipped.

The cart is best to use in the field for carrying cyanide and acid. A gasoline torch, two lanterns, hammer and hatchet and scales are necessary. Barrels of water are placed centrally in convenient places within the orchard during the day, as are the two gallon jugs of acid, and the boxes of cyanide. When at work the acid is turned into a stoneware churn, and this is dipped out by use of a dipper into the graduated measures. Pails for carrying water are required. Earthern pots holding two gallons, and 14 inches high, are used for generating the gas. These are placed one for each tent. Extra pots should be provided, as they are liable to be broken.

The poles for raising the tents are made of straight-grained Oregon pine, two inches in diameter, and of varying lengths, in sets from 12 to 18 or more feet. If poles longer than 18 feet are used, they should be 2½ inches in diameter. A 5-8-inch cotton rope is fastened 10 inches from the top of the pole. To cover the tree, two men, one on each side of the tree, places the end of the pole under the edge of the tent, takes a half hitch about both with the rope, raises the tent and end of the pole eight feet, when two other men at the other end of the poles pull on the rope, with foot against the end of the poles, when the tent is raised over the tree and carefully arranged so that the tree is well covered. Care must be taken that all is closed at the ground.

JUDGE AND MRS. STARK VISIT ROCHESTER AND DANSVILLE.

The efficient ex-chairman of the Program Committee, Judge Eugene Stark, of the Stark Brothers Company, of Louisiana, Mo., accompanied by Mrs. Stark, recently made an extended visit to the East. While in New York they inspected the Stark Bros. nursery plant at Dansville, in company with Business manager Yates, of the NATIONAL NURSERYMAN.

The stock in that noted section is looking exceptionally fine this year. The plantings of the Stark Brothers are showing up well, as is the case with most of the stock in the vicinity. Special note was made of a record block of two-year-old plum and cherry on John B. Morey's place. The members of the party were royally entertained by their Dansville hosts, and returned to Rochester greatly pleased with the outlook.

At Rochester, Judge and Mrs. Stark were the guests of Mr. Charles J. Brown, of Brown Bros. nursery company, by whom they were shown the beauties of the city and the vast extent of the nursery industry of the region.

It is whispered that after exploring the nurseries a search party discovered Judge Lynn, of former nursery fame, who "reminisced" pleasantly and at length on his memories of southern and western hospitality.

It is safe to say that the Rochester hosts sent their guests away with pleasant memories of their brief visit.

Fruit and Plant Notes.

THE USE OF RESISTANT STOCKS IN GROWING VINES IN CALIFORNIA.

The European grape is not successful on its own stock when grown in the interior valleys of California. For this reason extensive experiments are being instituted by the University of California and the United States Department of Agriculture, for the purpose of ascertaining the value of various native types of grapes for stock purposes. Large trials are also being made by Geo. C. Roeding of Fresno, who is using varieties of æstivalis and riparia, upon which are grafted some of the leading popular California forms of the European grape. Thompson Seedless, Emperor, and Muscat are being freely grafted. The vines are propagated by grafting on the stocks in the nursery row, or grafting in the bench. California growers are rather more favorably disposed towards the bench graft system than the field stock graft system. In grafting the scions on these resistant stocks, care is taken to cut out the buds from the stocks so that the tendency for the development of sprouts from the stocks will be reduced to a minimum. The whip graft method is employed. The grafts are tied with twine prepared in the same way as grafters tying string. In the case of the bench graft system, the grafts are placed in a propagating bed for two or three weeks till the initial process of root making takes place. They are then planted out in nursery row, and cultivated for a year before setting in the vineyard. Of course it is well known that the French have been importing resistant stocks from America in large quantities for a number of years, but it is not so well known that this same type of work is going on in California.

SANTA ROSA PLUM.

The office of the NATIONAL NURSERYMAN is in receipt of a box containing samples of Burbank's Santa Rosa plum, forwarded by the Fancher Creek Nurseries, Fresno. This plum is of the largest size of its class. It is dark purplish-red in color, firm and meaty in flesh, with a moderate sized stone which is adherent. The skin is tough, indicating good shipping qualities, the flavor is a curious mingling of Japanese and prunus simoni qualities. There is, however, a good deal of acidity associated with the skin. We are of the opinion that it will prove a fine canning variety. The following is a more technical description of the specimens received :

Form, regularly round with truncate ends ; size, large, 2″ x 1⅞″ ; cavity, deep, narrow, flattened laterally ; stem, ½″, slender ; suture, well defined by a ridge, depression slight ; apex, roundish, sometimes depressed ; skin, smooth, tough, acid to astringency ; color, dull red with purplish tinge ; dots, scattering, small, gray ; bloom, none ; juice, abundant colored ; flesh, firm but melting, highly colored ; stone, med. size, flat-winged, cling with Americana characteristics ; flavor, mild with peculiar prune flavor ; quality, fair to medium ; use, cooking.

General notes : This is a handsome fruit and appears to combine Japanese, Americana and Simoni characteristics. Keeps well.

Specimen received from Fancher Creek Nurseries, Fresno, Cal. ; described by J. C. ; date, July 16, '07 ; Plum, Hybrid group.

PECAN STOCK.

Growers of pecan trees report a brisk demand. It is probable that the supply will be insufficient. The plantings in the Gulf States and Texas promises to be heavy. Stuart, Van Deman, Frotscher are leaders.

Baker Bros. Company, Ft. Worth, Texas, have incorporated with $40,000 capital fully paid. J. B. Baker is president and general manager and W. J. Baker, secretary and treasurer.

VARIETIES OF PEACHES.

The question of what varieties to plant, or rather what varieties to propagate, is always an interesting one for the grower. Every time this subject comes up the air is thick with protests against the number of varieties that we do grow. Every nurseryman is emphatic in his statement that we are growing three or four times too many, and yet in every catalogue one picks up a new graft is found.

A prominent nurseryman says : "The peach growers of Georgia have tested hundreds of varieties, many of them pronounced wonderful and world beaters, but when grown commercially how many of them prove to be stayers? The varieties commercially equal to Elberta can be counted upon the fingers of one's two hands. Yes, we are not sure but one hand would suffice But good as Elberta is, there are some others as good, and a few better, which may be recommended to almost anyone. Yet the list of peaches as offered by many extensive nurseries in the United States runs everywhere from fifty to one hundred and fifty or more varieties."

When this question came up in Detroit, Mr. J. C. Hale of Winchester, Tennessee, gave the following list as including the best varieties for his locality. They were given approximately in order of ripening. Sneed, Triumph, Admiral Dewey, Greensboro, Hiley, Carman, Emma, Belle, Elberta, Late Crawford, Stump. Mr. Albaugh recommended the following for South Central Georgia : Waddell, Carman, Hiley, Elberta and Kalamazoo. The discussion brought out the fact that no one list would meet the views or needs of all localities. Each region has its own adaptations, and requirements. Undoubtedly one of the weak points is that varieties are placed upon the market before they are thoroughly tested. The suggestion made by retiring President Albertson that varieties should be sent to the experiment station for trial is a good one.

TENNESSEE COMPANY : The Gibson Fruit Growers' Association was organized at Nashville, Tennessee, recently. J. W. Hunt, J. E. Morris, and J. T. Warmath, all of Nashville, are the incorporators.

EDITOR NATIONAL NURSERYMAN :

We regret very much that we were not able to meet with you this year. The June meeting of the American Association comes at a time when we are busiest with our fruit handling, making it impossible for a member of our firm to be absent from the business.

Trusting that you had an interesting and profitable meeting and again expressing our regrets at not being able to meet with you, we beg to remain,

THE GRIFFING BROS. CO.,
C. M. GRIFFING.

CHANGE IN FIRM.

C. M. Hobbs, the senior partner in the firm of Albertson & Hobbs, has purchased the nursery interests of Emery Albertson, Mr. Albertson retiring from the firm by mutual and friendly agreement. C. M. Hobbs, O. A. Hobbs and Harry W. Hobbs succeed to the business under the firm name of C. M. Hobbs & Sons. The new firm hope by careful attention to the business, square and courteous dealing, to merit a continuance of the prosperous business of the old firm.

"The new firm will have for the fall and spring trade our usual line of fruit, shade and ornamental stock which at this time promises to make up as well as any stock we have ever grown. We will be especially strong on Norway Maple, 1 to 1½ inch in caliber, unusually smooth and straight, the finest we ever grew ; also Carolina poplar in all sizes, elm, American linden, soft maple, etc., in common sizes. We will be strong on light grade cherry and pear, good, clean, smooth two year stock. We shall have a fine lot of two year plum—Native, Japan and European—with our usual line of evergreens, shrubs, climbers, etc."

C. M. HOBBS & SONS.

The lime is one of the coming orchard crops. The market is never glutted for the reason that the ideal lime growing region is very limited.

A SYMPOSIUM ON PROPAGATING THE CHERRY.

NORTH CAROLINA.

We have never practiced grafting cherries in any form, but we usually have had good success in budding, especially on Mahaleb stock when we have good seasons. Sometimes during very hot, dry weather we have failed. By watching the stock carefully and budding at the right time we have been successful. In budding Mazzard stock, we have to be more careful and bud the stock just when it is in the right condition, growing and thrifty, and when the weather is not too hot. When in perfect condition in every way, we have good success. If Mazzard stock is neglected for even a few days it makes a great difference. A careful nurseryman watching it knows when the work should be done, and when in the right condition, the work must be done at once in order to have good trees.

POMONA NURSERIES,
J. VAN LINDLEY, Pres.

Pomona, N. C.

INDIANA EXPERIENCE.

We are of the opinion that one cause for bad stands in recent years is the use of men for budding who have had little or no experience in the work. Where the larger concerns have a great number to bud, enough competent help is not to be had, so inexperienced is used to get the budding done in time. With us we have nearly always had a fair stand of cherry buds and the past five years have had extra good stands. We think our success has been due more to the fact that we employed only experienced budders.

We have never tried root-grafting the cherry and cannot say anything about it. Some years ago we practiced top-grafting in the spring to some extent with fairly good success. That must be done in the spring, however, when help is scarce and lots to be done and for that reason is objectionable. The method we pursued was to dig down almost to the root of the stock and cut it off and put the scion on and put wax all about the cut and then packed the dirt back around the graft. They made good two year trees by this method. Excepting the above, budding is the only way we have ever propagated the cherry.

Trusting this will be of benefit to you, we remain,

H. M. SIMPSON & SONS.

Vincennes, Ind.

BUDDING MORE UNCERTAIN THAN FORMERLY.

For the past five or six years I have had poor stands of cherry buds. I am not sure of the cause. We used to have perfect stands without any extra effort. I have tried root-grafting cherry. It takes too long to get a first class salable tree. I have never tried crown grafting. Spring budding is practiced by some, I think, with uncertain results.

JOHN FRAZER.

Huntsville, Ala.

ROOT-GRAFTING NOT SATISFACTORY.

In regard to the root-grafting of cherries, we have never tried it very much, but what little experience we have had with it, it has not been at all satisfactory. We have seen some blocks of cherries grown by others from root-grafting, but these were never satisfactory to us, or such as the trade would generally expect. We do not think root-grafting of cherries a success.

In regard to the failure of buds, this may have been from different causes. The seasons have much to do with it. If the season should be wet and the ground inclined to be a little wet, leaf-rust is likely to follow, which affects the stocks materially, and under such conditions it is very hard to get anything like a good stand of buds, then, stocks that have been affected by leaf-rust are also more liable to damage by the winter, as the wood has not been properly matured to stand the cold winters. Again, the condition of the stock at budding time has something to do with it. If growing too rapidly and too full of sap, the buds may fail to take properly, and a loss result. Sometimes where the ground is a little heavy, and should the winter be an open, wet one, or a late spring frost, the buds may be injured. There are so many conditions to be considered that it is hard to say what might have been the trouble in each case, without knowing fully the circumstances, but as to the grafting of cherry, we do not think any one will find this a success.

If we could possibly give anything further of interest, we would be glad to do so.

C. M. HOBBS & SON.

Bridgeport, Ind.

CENTRAL IOWA.

The most potent cause of failure of buds which I have ever known is excessive wet weather and consequent disease of foliage of stocks. It is much easier in Iowa to secure a good stand of buds in a dry season than during an excessively wet one. I used to practice root-grafting, using both Morello cherry and Mazzard stocks. My method was to make a side cut in making the root-grafts and waxing the wound completely so as to exclude the air from all cut surfaces. Grafts were then packed in sand, rather dry, with the scions exposed and kept in a cool place till planting which should be done as early as possible. I found it better to not make the grafts until within a few weeks of planting time. Success or failure seemed to be a matter of keeping the grafts entirely dormant until fairly planted. This work, using the Mazzard, making only one crown graft to each seedling, has been most satisfactory.

From all my observations and experience, however, I am persuaded that no man can afford to root-graft the cherry on any stock in this region.

C. L. WATROUS.

Des Moines, Iowa.

WESTERN NEW YORK.

For some unaccountable reason it has become much more difficult to grow the cherry than it was forty years since. I have no theory as to the cause of its failure, other than unfavorable conditions of the weather which causes the Mazzard stock to blight its foliage to such an extent that budding does not succeed. It is easier of course to grow the cherry on Mahaleb which has a foliage which seems nearly immune to any disease.

I know nothing of root-grafting same, but should suppose it would be more difficult to do this than with the apple.

S. D. WILLARD.

Geneva, N. Y.

FERTILIZER.

Keen and wide awake competition not only reduces prices but it awakens every latent energy of the producer to put on the market ahead of anybody else the best product at the lowest cost.

The up-to-date nurseryman or fruit grower not only is using his best endeavors to produce all the stock he can but he is also using every effort to produce quality as well as quantity.

The question of fertilizers is becoming as important as the selection of seed, and the grower who is satisfied with the results obtained from the use of common manure alone, is decidedly not in it with the grower who uses and studies the effects of true fertilizers.

The best authorities tell us that there is less than forty pounds of actual fertilizer in a ton of ordinary barnyard manure.

The thoughtful grower therefore either adds a sufficient quantity of actual fertilizer to the manure which he has at his disposal or else entirely dispenses with manure in favor of a fertilizer which contains a large percentage of the fertilizer elements of Nitrogen, Potash and Phosphoric Acid.

It gives us pleasure to call the attention of our readers to a strictly high grade fertilizer advertised elsewhere in our columns. Blatchford's Plant Grower and Land Renovator would seem to us to be a most excellent fertilizer to purchase as the ingredients of which it is composed are those known to contain the best quality and the largest amounts of the fertilizer elements. It would seem that a small amount of it should go a long way and produce excellent results, and considering the fact that from 2,000 to 4,000 pounds of inferior high priced fertilizer per acre is often used, it would appear to us that it is by far the cheapest to use a pure fertilizer such as Blatchford's Plant Grower and Land Renovator, 400 or 500 pounds of which to the acre should produce valuable results.

Doings of Societies.

PRELIMINARY ANNOUNCEMENT.

WISCONSIN STATE HORTICULTURAL SOCIETY. SUMMER MEETING.

The 1907 Summer Meeting of this Society will be held at Shiocton, August 28th. Following the plan of previous years this will be a "flower" meeting. The leading topic will be Bulbs and Tuberous-rooted Plants.

FEATURES OF SPECIAL INTEREST AT SHIOCTON.

1. The bulb farm of M. Crawford, the well known strawberry and gladiolus specialist. Mr. Crawford has six acres of gladiolus at Shiocton which should be in bloom on the date of our meeting.

2. An opportunity to see the work being done by the Shiocton Garden Land Co. in transforming 4000 acres of swamp into garden land. This land has risen in value from $10.00 to $200.00 per acre.

Either of these features should insure a large attendance at the Summer Meeting; in addition a good program will be provided and liberal premiums offered for both flowers and fruit.

R. J. Coe, President, Ft. Atkinson, Wis.

F. Cranefield, Secretary, Madison, Wis.

AMERICAN APPLE GROWERS' CONGRESS.

This Association meets in St. Louis, August 13-14. A lengthy program has been outlined and an interesting meeting is expected. The secretary is T. C. Wilson, of Hannibal, Mo.

INTERNATIONAL APPLE SHIPPERS.

The thirteenth annual meeting of this association will take place in Atlantic City, August 7, 8. Headquarters will be established at St. Charles Hotel. An interesting meeting is assured.

NATIONAL IRRIGATION CONGRESS.

The fifteenth meeting of the National Irrigation Congress will be held in Sacramento, California, September 2-7 inclusive. California fruit growers, representatives of various industrial organizations, in addition to the forestry people, are interesting themselves in advertising this meeting and preparing for a great national gathering. Delegates from many of the states, including the Philippines, will be present. Exhibits of irrigation products will be made, and the whole convention promises to be one of exceeding interest from the agricultural as well as engineering standpoints.

AMERICAN SEED TRADE ASSOCIATION.

The twenty-fifth year of this society's existence was celebrated by an excellent meeting in New York City. Many items of interest to seed growers and seed dealers were discussed. Addresses by Prof. B. T. Galloway, Messrs. S. F. Willard, Walter P. Stokes, F. W. Bruggerhof of Thorburn & Company, were among the features of the meeting.

The election resulted as follows: President, George S. Green, Illinois Seed Company, Chicago; First Vice-President, M. H. Duryea, of Henry Nungesser & Company, New York; Second Vice-President, F. W. Bolgiano, Washington, D. C.; Secretary-treasurer, C. E. Kendel, Cleveland, Ohio.

MISSOURI HORTICULTURAL SOCIETY.

The summer meeting of this active state society was held at Carolton, June 4-6. An interesting program was carried out with the help of the experiment station and agricultural college men, as well as leading fruit growers of the state. President, C. H. Dutcher, Warrensburg, Missouri.

APPLE GROWERS ORGANIZE IN CALIFORNIA.

The growers of apples in the vicinity of Watsonville, California, have recently organized for their mutual benefit. Two or three local associations have been combined and it is proposed to establish a union packing house and ship in uniform packages under the company brand.

ONTARIO FRUIT GROWERS' ASSOCIATION.

This society in its report for 1906 publishes as Appendix A a series of biographical sketches of prominent Canadian fruit growers. The names include pioneers in plant testing, plant breeding, and orchard promotion in various parts of the Dominion. The records of the work of these men are valuable.

AMERICAN PEONY SOCIETY.

The postponed exhibition and meeting of this society took place on the 27th and 28th of June, at Cornell University. The meeting was the best attended and most successful in the history of the organization. While the vagaries of the season restricted the display of blooms considerably, yet in certain sections there were admirable exhibits. The amateurs showed up encouragingly, and in the classes for the best fifty blooms there was an excellent display.

More business was transacted than usual, and the society took definite action in regard to future work bearing on nomenclature and synonymy. The reports of Prof. Craig and Mr. Coit on this subject aroused considerable interest, and resulted in the members of the society agreeing to extend the collection of plants in the Cornell trial plots by sending standard collections of varieties grown by each one, of which they were reasonably sure as to name. These collections will be received the present year, and will consist of one strong clump of each variety. They will be planted and well cared for and under the conditions should give fairly characteristic bloom the following season.

Arrangements were made for the registration of new varieties of peonies, and for the passing upon new introductions. The society will meet again at Ithaca in 1908. Messrs. C. W. Ward, of Queens, L. I., and A. H. Fewkes, Newton Highlands, Mass., were elected president and secretary respectively, Mr. J. H. Humphreys, Andorra Nurseries, Philadelphia, is treasurer.

PACIFIC COAST ASSOCIATION OF NURSERYMEN.

SALEM CHERRY FAIR.

Meeting at Salem, Oregon, in conjunction with Salem Cherry Fair, July 10-11-12. The Pacific Coast Association of Nurserymen held their fifth annual meeting on the above dates at Salem, Oregon, in connection with the Salem Cherry Fair. The meeting was well attended and very successful. The visitors were welcomed by George F. Rogers, Mayor of Salem, and H. B. Thielsen, President of the Salem Board of Trade. A response to the address of welcome was given by Mr. F. W. Power, president of the Nurserymen's Association, and H. C. Atwell, president of the State Horticultural Society.

Among the subjects discussed, of special interest to nurserymen, were "Marked Line Between Inferior and Superior Nursery Stock," Prof. A. Stewart, Christopher; "Horticultural Law," F. A. Huntley, Commissioner of Horticulture of the State of Washington; "Nursery Business and Legislation," G. W. R. Peasley; "Relation of Nurserymen, Fruit Growers, and Horticultural Commissioners," W. K. Newell, President Oregon State Board of Horticulture; "Parasitic Work in California," John Isaacs; "Future of the Cherry on the Pacific Coast," C. I. Lewis, Professor of Horticulture, Oregon Agricultural College; "The Grape in California," George C. Roeding; "The Walnut," George P. Dekum.

Between the sessions the visiting fruit growers and nurserymen were entertained by the Oregon Nursery Company, and visited the local nurseries and other points of interest in and about Salem.

In speaking of the "Future of the Cherry on the Pacific Coast," Professor Lewis, of the Oregon Agricultural Col-

lege, stated that the Oregon cherry had all the qualities necessary to make a good commercial fruit. It possessed desirable color, flavor, and the necessary carrying qualities. He urged that a more uniform and better standard type of cherry should be grown. He thought it most desirable that large quantities of a uniform type, which should become characteristic of Oregon, should be produced. As standards of excellence, he named Bing, Lambert, and Royal Anne. In the propagation of the cherry, he urged that the scions should be taken from the best types of these varieties.

Mr. M. McDonald, of the Oregon Nursery Company, took exception to the California quarantine laws, stating that they worked hardships against the nurserymen. Mr. Isaacs, of California, characterized the law as an emergency law. He stated that it was passed largely to check the importation of Australian insects.

Resolutions, tendering the thanks of the Association to Messrs. Armstrong, Powers, and others, for the time and labor they had placed upon the program, and the principal speakers for their presence, were passed. Officers for the Pacific Coast Association of Nurserymen were elected, to serve for the ensuing year, as follows: President, W. D. Ingalls, North Yakima, Wash.; Vice-Presidents, British Columbia—M. J. Henry, of Vancouver; Oregon—A. Holaday, Scappoose, Ore.; Washington—T. K. Spaulding, Sunnyside; Idaho—O. F. Smith, Blackfoot; Mr. Dix, of Harness, Dix & Co., Roy. On the whole, the meeting proved to be a great success.: The Cherry Fair itself is a strong factor in advertising the fruit interests of the Pacific Coast, and the meeting of the nurserymen at the time and place of this event is both appropriate and wise.

TARIFF.

Niagara Falls, Canada, Wednesday, July 17, 1907.

Editor NATIONAL NURSERYMAN Pub. Co., Ithaca, N. Y.

Dear Sir:—

In reference to your favors of the 3rd and 6th insts., we are enclosing draft of the Canadian Customs Tariff in so far as it affects nurserymen.

The following decisions by the Department on the Canadian Customs Tariff will be interesting.

Forest trees and forest tree seedlings come under item No. 80—exempt from duty, although dwarf trees which are sometimes classed as forest trees, for customs purposes come under the heading of shrubs, dutiable at 20%.

Packages are dutiable at 20% when containing any of the stock named in items No. 78 or 82, but are not dutiable when only such articles as appear under 79, 80 or 81—even if only a small quantity of 78 or 82 are packed with either of the others, then the value of the box and packing will be dutiable as a whole.

As before, all stock with the exception of hot house and strawberry plants and evergreens can only be entered during the fumigation season, which for the fall shipments will open about the beginning of October, although the date is not definitely fixed—it will last two months. In this connection we might say that fumigation is attended to at the frontier, and if in the course of your article you can find it practicable to introduce our name, you can with perfect confidence recommend that customs clearance should be effected at the frontier as a means of saving time.

Shipments billed in our care for this purpose are hurried through the fumigation house, and the railroad and express agents are given no rest until the consignments are once more on their way to destination. Without this service, delays are frequent, resulting in damaged stock and dissatisfied shippers and consignees.

The invoice form enclosed illustrates the nature of the document required, to be completed by the shipper in duplicate for each consignment—both home consumption and Canadian purchaser columns have to be filled in, while the declaration on the back needs the signature of the shipper or his representative. We supply these blanks, if desired, at 75c. per hundred, postage paid.

We shall be very happy to give you information on the subject at any time, while direct inquiries from your readers will be promptly, carefully and courteously answered.

THE C. S. WARNER CO.,
by
ROLAND MAYER.

SCHEDULE.

78—Florist stock, viz :—Palms, ferns, rubber plants, (Ficus), gladiolus, cannas, dahlias and pæonies	25 p.p.c.
79—Florist stock, viz :—Azaleas, rhododendrons, pot grown lilaca, rose stock and other stock for grafting, seedling carnation stock, arausarias, bulbs, corms, tubers, rhizomes and dormant roots, n. o. p.; seedling stock for grafting, viz :—plum, pear, peach, and other fruit trees	Free
80—Trees, n. o. p., and teasels	Free
81—Trees, viz :—Apple, cherry, peach, pear, plum, and quince, of all kinds and small peach trees known as June buds	3c
82—Grape vines, gooseberry, raspberry, currant and rose bushes; fruit plants, n. o. p.; trees, plants and shrubs, commonly known as nursery stock, n. o. p.	20 p. c.

Business Movements.

COOPER & MONCRIEFF REORGANIZE.

EDITOR NATIONAL NURSERYMAN :

The enclosed letter which we have written you about advertising is the last letter you will receive signed Cooper & Moncrieff, as Mr. Cooper has sold out all his interests in the Nurseries in the home plant at Winfield, Kansas, including the branch nurseries at Rock and Wellington, Kansas, to J. Moncrieff and associates, who are R. B. Shanklin, Thomas Rogers, Nellie M. Moncrieff, and E. S. Moncrieff. This business will be incorporated and the business continued under the name of the Winfield Nursery Company. The company's aim will be to still further improve every department of business and merit the future business of all old customers.

J. MONCRIEFF.

The Gardner Nursery Company, Osage, Iowa, has enlarged its area by purchasing a considerable area of land adjoining. This area will be immediately developed and added to the nursery.

The Colorado Nursery Company, of Loveland, Colorado, has changed hands. Messrs. Shields and Noble have sold to Messrs. Kramer and Gooch.

MR. SCARFF'S FINE RESIDENCE.

We are glad to see in a late number of the *Springfield Daily News* an interesting description of the attractive home of the well known nurseryman, W. N. Scarff, of Carlisle, Ohio. The sketch outlines the business career of Mr. Scarff, and shows that intelligence, pluck and perseverance are rewarded with success in the nursery business as fully as in any other line of industrial endeavor. Mr. Scarff is president of his county horticultural society, of the local school board, and is interested in various home enterprises. In other words, he is a citizen as well as a nurseryman.

PENINSULA FRUIT COMPANY: A corporation has recently been formed at Richmond, Virginia, composed of J. M. Sample president, Charlotte; M. P. Burkes, vice-president, Bristol; D. T. Stant, Secretary-Treasurer, Bristol, for the growing and handling of fruit. Maximum capital is to be $50,000.

CROWN GALL OF THE APPLE.—THE SCION LARGELY RESPONSIBLE.

PROF. J. L. PHILLIPS, VIRGINIA.

In case of peach yellows, we have a disease that can be transmitted by inserting buds from diseased trees into healthy ones. Is crown gall of apple of the same nature? Will scions from diseased trees transmit the disease to nursery stock grown from them? Let us have more data from workers who have made observations on this disease.

Some of our earlier observations on crown gall were set forth in bulletin No. 140 of the Virginia Experiment Station, but it has been continually under observation since that time. Apple seedlings with an unnatural fibrous root appearance, like those used to propagate trees in that experiment, produced some trees with a pronounced fibrous-root appearance, and some with the knotted appearance as well as the abnormal fibrous growth. These trees did not have a normal, healthy system of roots, and were in marked contrast to the checks. It must also be borne in mind that the disease developed on the stock, while the scion portion of the root, taken from trees that were apparently healthy, showed very little trace of the trouble.

In the winter of 1904, seedling apple stocks, which showed the hairy-root appearance, some of them very slightly, were selected and cut off at the crown. The tops of these seedlings were then used as scions to graft on healthy stocks. The scion cut from portion of top of seedling nearest the crown, we termed the base cut and the one next above, the second cut.

The base cuts from tops of 151 apple seedlings with this hairy-root appearance, were planted in 7 different parts of the experiment plats, and the second cuts from 25 of the worst affected of these seedlings were used as scions also. Of the first lot of grafts (base cuts) 127 lived and grew well, and of the second 13 lived and grew well. When dug in the fall of 1906, 78 trees, or 61% of the first lot showed unmistakable signs of Crown Gall, and in none of the 7 different plats did the number of affected trees fall below 40% of those living at the time. Of the second lot, 12 or 92% developed the disease, the large per cent. in this latter case being very likely due to the fact that these scions were cut from the seedlings with the worst hairy-root appearance.

Scions were cut from a Chenango apple tree, standing in the orchards of the Va. Exp. Station, which is affected by Crown Gall and also with a stem form of this disease. These scions were grafted on healthy stocks. Of 22 trees grown from these scions during 1904-'06, 10 or 45% were badly affected by crown gall at time of digging (fall of 1906). There were also 27 trees grown on healthy stocks with scions taken from Peck's Pleasant, an orchard tree diseased with crown gall, and 9 or 33⅓% were badly diseased with crown gall when dug.

There were 63 scions cut from two-year nursery apple trees (Winesap, Ben Davis, Black Twig and York Imperial) diseased with crown gall, grafted on healthy stocks (stocks that did not show the abnormal fibrous appearance) and planted in the spring of 1904. Only 20 of these trees lived, and, when dug in the fall of 1906, 8 of them, or 40%, were badly affected with crown gall.

The disease showed to a slight extent in an additional large per cent. of the trees in every case mentioned above, but not sufficiently for it to be unmistakably identified as crown gall. These trees were planted for further observation.

With very few exceptions the portion of the root of these trees below the union, that portion formed by the stock or seedling, was apparently free from the trouble when the trees were dug, it being confined to the upper or scion portion of the roots almost entirely.

A number of seedlings with the abnormal fibrous roots, that produce crown gall in trees grown from them, have one or more bunches of fibrous roots near the crown, the lower part of the seedling being almost free from the trouble. The lower part of 44 of these fibrous root seedlings, were selected, and scions of Winesap and Yellow Bellflower used to graft into them in the spring of 1904. Though the lower part of these seedlings exhibited no trace of the abnormal fibrous roots, crown gall developed on 27, or 68% of the trees grown from them. In only one case was the gall above the union of stock and scion, it being very pronounced below the union, and on 6 plants, at the union also.

In the check plats, 140 grafts were planted, the scions for which were cut at random from orchards in the vicinity, as near as we could tell, from healthy trees, but the stocks were carefully selected and none used that showed the abnormal fibrous appearance. Of these, 109 lived, and, when dug in the fall of 1906, 8, or 7%, were badly diseased with crown gall.

Another lot of 160 grafts like the check, had small pieces of gall placed in the soil with them, and, of the 113 that lived, 12, or 10%, were badly affected with crown gall at the end of the second year.

It will be observed that the scions cut from trees that were known to be affected with crown gall, produced the disease in from 40% to 90% of these trees grown with them, while, in the case where scions were taken at random, not more than 10% developed this disease.

Nurserymen have often told us, that certain varieties are much more susceptible to this disease than others, and the writer has observed, to mention a special case, 75 to 80% of two-year Grimes Golden just as they were taken from the nursery, affected in this way, while, in other nurseries, this variety did not appear to be affected worse than others. And other varieties standing beside this one were not affected worse than is ordinarily the case. In this case the trees were nearly all affected either at or above the union. As many nurserymen cut propagating wood from their nursery rows, the supposition is that the disease in such cases comes mainly through the scion.

In many other cases coming under our observation, the disease appeared to form on the scion above the union with the stock. In a large commercial nursery in this state, where care is taken to discard the abnormal fibrous-root seedlings, a number of Early Ripe, York Imperial and Winesap trees that were discarded for crown gall at time of digging in the fall of 1906 were carefully examined by the writer. Of 511 of these trees, 41, or 8%, appeared to have become diseased from the stock, while 470 of them, or 92% were affected at the union and above, giving the appearance of having become infected through the scion, the seedling portion of the roots showing very little indication of the disease at this time.

THE AUGUST AMERICAN BOY.

The first of a series of "Hiawatha" pictures adorns the cover page of the August *American Boy*. The contents may well be called the vacation issue on account of the numerous excellent stories it contains. The Tomlinson, Sprague, and Ellis serials are continued with increasing interest; in addition there are two shorter serials entitled: Hazy, by Harley P. Chandler, a school story of surpassing interest, and For the Flag, by J. A. Knowlton, a fine yachting story. Some of the shorter stories are: How the Slop Brigade Won Its Spurs, telling how seven poor little darky boys performed an heroic act, and the reward they chose; The Tale of a Dog, teaching kindness to our dumb friends; The Young Pioneer's Escape, a story showing the quick wit and daring of the boys of Revolutionary days; Dick and Joe, telling of the adventures of two boys in the early sixties on their way to the Colorado mining camps, and The Were Wolf and the Real Wolf, another fine animal story. The sketch of Robert Fulton, the inventor of steam for propelling boats, will be of interest, at this time, on account of the celebration of a century of steamboat traveling. Some sensible advice to boys is given in the article Do It Now, and for the athletic boy there are The Boy and His Muscle, telling of prominent school athletic champions, and The Pitcher and the Catcher, showing what qualities are desirable in the holders of these positions. Chats With Big Americans this month is an interesting interview with William A. Pinkerton, head of the famous detective agency. The usual departments of Stamps, Coins, and Curios; Boy Mechanic and Electrician; Boy Photographer; Tangles; Boys' Books Reviewed; O. A. B., and American Boy Legion of Honor, are filled with matters of interest. In addition there are over 45 fine illustrations. Subscription $1.00 a year. The Sprague Publishing Co., Detroit, Mich.

THOUGHT HE WAS A BIRD.

Pat had but a limited knowledge of the bird kingdom. One day, walking down the street, he noticed a green bird in a cage, talking and singing. Thinking to pet it, he stroked its head. The bird turned quickly, screaming, "Hello! What do you want?" Pat shied off like a frightened horse, lifting his hat and bowing politely, as he stuttered out: "Ex-excuse me s-sir, I thought you was a burrd!"

SEMI-ANNUAL MEETING OF THE WESTERN ASSOCIATION OF NURSERYMEN.

HELD AT KANSAS CITY, MO.

July 10-11, 1907.

11 A. M.—Meeting called to order by Vice-president Geo. A. Marshall. The following members present: E. P. Bernardin, Kansas City Nurseries, J. S. Butterfield, Cooper & Moncrieff, Des Moines Nur. Co., B. E. Fields & Son, German Nurseries, A. C. Griesa, T. E. Griesa, Harrison Nursery Co., Holman Bros., D. S. Lake, J. A. Lopeman, Marshall Bros., J. H. Skinner & Co., F. H. Stannard & Co., Stark Bros. N. & O. Co., L. R. Taylor & Sons, James Truitt & Sons, A. Willis, J. Wragg & Sons, Youngers & Co., and G. L. Knight.

Treasurer's report showing a balance of $111.26 approved. The Kansas City Nurseries by Geo. H. Johnson, invite the association to view Kansas City from the observation cars. Accepted. Committee on obituary and resolutions appointed. Adjournment.

1:30 to 3:30 P. M. was pleasantly spent in a thirty mile ride noting the great expansion of Kansas City.

DIGEST OF PAPERS.

"Can We Look for Better Prices on Apple Trees to Continue for a Few Years Yet?" as introduced by Mr. Stannard, and from general discussion of the subject, made clear that increased cost of labor and other added care and expenses connected with the producing of trees necessitated an advance in price which must continue as long as present conditions exist.

"Is a Green House in Connection With the Nursery Profitable?" Walter Truitt. Mr. Truitt's paper will be published. Mr. Willis gave an interesting statement of what he saw and learned at Dansville, N. Y.

"Is the Demand for Ornamental Stock Growing in the West?" The multiplying homes of wealth and taste, the increased parking of cities, ornamental spots along railways and public buildings was deemed an affirmative reply.

"What is the Outlook for Cherry for the Year 1908?" Best information indicate a comparative shortage.

What was to be learned at the last National Convention? "Good papers," "interesting exhibits" and "the best men on earth," were some expressions from attendants.

"Should Nurserymen Catalogue the Spencer Seedless Apple?" Opinion of the Association was that this apple is *comparatively valueless* and *should not be offered to the public as a fruit of merit.*

"Can Nurserymen Handle Forest Tree Seedlings with Safety the Latter Part of September?" Experience in this line was that frosts should check growth, circulation cease and that trees should have entered a dormant state to move with best results. Advice was against too early handling.

"What is the Best Material to Use for the Money Expended for Packing and Storing Trees?" W. P. Stark gave the experience and opinion of many nurserymen and in an exhaustive way made clear that one of the important questions of the future to the nurserymen was the procuring of suitable packing material.

"Is a Nurseryman a Horticulturist?" elicited a lively discussion and a general admission and resolve that nurserymen should and would give horticultural work and associations a greater support.

Relative to the South Dakota law in the hands of the National Association, the secretary was instructed to write Mr. Pitkin, chairman, copy of the resolutions and the recommendation of the name of B E. Fields as a valuable assistant in the early testing of the validity of the obnoxious law.

Upon the request of Mr. Lopeman, the members of the association were urged to write letters to Mr. Lopeman recommending a modified law for the state of Oklahoma along the lines of the recent Kansas enactment.

The meetings were full of life and spirit from beginning to end, characterizing it as one of, if not the best semi-annual meeting ever held by the Association. The papers and discussions were considered very valuable, and it is regretted that a stenographic record could not be made for the benefit of those unable to be present.

RESOLUTIONS ADOPTED.

By J. W. Hill—Whereas, the state of South Dakota at its recent session of legislature enacted some laws which, in our opinion, are very unjust and a great detriment and burden to nurserymen desiring to do business within the state, and

Whereas, The American Association of Nurserymen at its recent meeting at Detroit, by unanimous vote requested their committee on legislation to proceed to test the constitutionality of the bill with the least possible delay; therefore be it

Resolved, That it be in the sense of the Western Nurserymen's Association, in convention assembled, that we regard the prompt action of the committee in testing the law of paramount importance to the nurserymen at large and especially to the membership of this Association, and be it further

Resolved, That our secretary be requested to communicate with Mr. Wm. Pitkin of Rochester, chairman of the committee on legislation. Respectfully urging upon him the importance of prompt action upon his part in testing the law referred to, pledging to him our support and assistance in bringing the matter to a termination with the least possible delay.

By E. P. Bermardin—Resolved, That the Western Association of Nurserymen, in convention assembled, at Kansas City, Mo., on the 11th day of July, 1907, recognize in the Inspection Law of the State of Kansas, a law of equity to all interested, the planter, the nurseryman and all those interested in horticulture and heartily recommend the same for consideration by the Oklahoma Board of Agriculture and to the nurserymen of Oklahoma in general.

A resolution of respect in memory of the late Col. U. B. Pearsall, was unanimously passed.

Committee: N. C. Wragg,
J. W. Hill,
Geo. H. Johnson.

We, your committee on resolutions, beg to report as follows: First, that we extend to the press and especially to "The National Nurseryman," "*The Fruit Growers*" and "*American Fruits*," our thanks for the many courtesies extended which have materially assisted this Association.

That our thanks are due Mr. Geo. H. Johnson of the Kansas City Nurseries for the profit and pleasure trip through his city.

That we urge an effort upon the part of every member to increase our membership, thereby making our organization of more benefit to us all.

Respectfully submitted,
E. P. Bernardin,
A. J. Brown,
R. S. Lake.

At 1:00 P. M., July 11, adjournment was had, the annual meeting to convene at same place, Tuesday and Wednesday, December 17-18, 1907.

E. J. Holman,
Leavenworth, Kansas. Secretary.

Oudenbosch, Holland, is the centre of vast nursery interests, which supply largely the shipments of Norway and Schwedler Maples, large deciduous trees and evergreens reaching this country.

To meet the increased requirements of the American trade, several nurserymen there have combined under the name of "The Union Nurseries," with Mr. H. W. Van Der Bom as the managing director. Messrs. McHutchison & Co., of 17 Murray St., New York City, are the American agents of this combination.

The arrangement enables each firm to make specialties of stock required, with reasonable certainty of finding a market for their products when grown. Prices will also be reduced, a greater quantity of stock being grown. Our readers will remember Mr. Van Der Bom, who visited this country several times recently.

ANNOUNCEMENT.

The partnership between Emery Albertson and C. M. Hobbs, known as the firm of Albertson & Hobbs, has, by mutual and friendly agreement, been dissolved. C. M. Hobbs having purchased Mr. Albertson's interests in the business, has associated with him his sons, Oliver A. and Harry W. Hobbs, under the firm name of C. M. Hobbs & Sons.

C. M. Hobbs.

Catalogues Received.

John Palmer & Son, Ltd., Annan Nurseries, Dumfriesshire, Scotland. Special trade list of nursery stock, autumn, 1907, spring, 1908.

F. W. Watson & Co., Topeka, Kan. Special price list, February, 1907. Fruit, forest and ornamental trees, shrubs, etc.

Homer L. Reed, Louisiana, Mo. Price list of the Reed Tree Stripper.

Forest City Nurseries, Portland, Maine. Wholesale trade list for 1907.

Oak Lawn Nursery, Huntsville, Ala. Price list of June bud peaches and plums, etc.

Luther Burbank, Santa Rosa, Cal. "The New Agricultural-Horticultural Opuntias," plant creations for arid regions.

Andorra Nurseries, Chestnut Hill, Pa. Price list of specimen trees, shrubs, roses and fruit, 1907.

Eugene Collins, North Willett, N. Y. Wholesale price list, 1907.

DeGraaff Bros., Leiden, Holland. Wholesale catalogue of bulbs and plants, 1907.

Ohio Nursery & Supply Co., advance list, June first, 1907. Wholesale growers of forest trees, climbing vines, shade trees, etc.

CULTIVATION OF NURSERY STOCK.

FOR AMERICAN ASSOCIATION OF NURSERYMEN, DETROIT MEETING JUNE, 12, 1907. BY C. A. MARSHALL.

In discussing the cultivation of nursery stock it is necessary to first go back to the preparation of the soil. While conditions differ in different parts of our country yet there are certain underlying principles that should be adhered to at all times. First, the seed bed, or plant bed as you may choose to call it, should be prepared so as to be in a healthy physical condition, sweet, pliable and full of life. It will then receive the seed or plant and start it forth at once. "A project well begun is half finished" is doubly true in the growing of nursery stock. A plant once well started and the battle is half won.

This ground can be more easily prepared by plowing four to six inches deep not later than July 1st to 20th. Then running over with a disc harrow, having the machine set so as to press rather than dig. The weeds can also be kept down by repeating this discing semi-occasionally until the middle or last of October when the ground should again be plowed, this time as deep as the plow will turn it, not less than eight or ten inches. In our prairie soils a sixteen-inch or seventeen-inch plow is preferred as it will turn a furrow deeper than the smaller plow.

Land prepared in this way will be in good condition for the planting of either seed or plants. The surface should be stirred immediately after the planting of anything. Another essential is to never cultivate deep unless it be while the plants are small and the soil thoroughly moist and to cultivate after each rain or rainy spell, between the wet and dry. During the rainy part of the season, or if you are not threatened by drouth, you should not be in too big a hurry to cultivate after each rain as too much cultivation will cause some soils, especially prairie soils, to become too fine and floury to to give best results. It seems it will not admit air or water properly. Each nursery should be equipped with enough teams and cultivators to cultivate it over in four or five days. Two horse cultivators are preferable to the one horse plow as a more thorough job can be done in every way and it saves much hoeing and hand weeding.

BOOK REVIEW.

"Types and Breeds of Farm Animals." 8½" x 5½." 563 pages. Illustrated. C. S. Plumb, professor of animal husbandry, Ohio State University, Published by Ginn & Company, Boston.

This volume is one of the Country Life education series, being prepared under direction of Prof. C. W. Burkett, director of the Kansas Experiment Station, and published by Ginn & Company. In addition to the domestic animals which are always treated in books of this nature, the ass, the mule, and Angora and milch goats are given a place. Their history, uses, and characteristics are discussed.

The book is adapted to the needs of the class-room as well as the requirements of the stockman. It is well edited, profusely illustrated and printed in good form. We have no hesitation in recommending it highly to all persons interested in the growing or care o domestic animals. Besides it forms an important contribution to this class of literature.

EXPERIMENT STATION WORK.

Ohio. Bulletin 180, Renewal of Old Orchards. This bulletin opens with a philosophic discussion of the desirability of caring for the old and frequently neglected apple trees which surround the farm home. It closes with a series of directions of how these trees may be rejuvenated by heavy pruning and good tillage. The orchard selected was not an old orchard from the standpoint of the Easterner, having been planted only about 40 years ago. The trees were too close together however, and this crowding pushed them up in the air. The trees were headed back severely and then the resulting growth of suckers and water sprouts carefully thinned out. The illustrations show that this type of rejuvenation is quite practicable. The important point, however, is that the cutting back is to be regarded as only the beginning of the work, and it must be followed up by careful pruning for two or three years.

With peaches this principle is well understood and generally practiced. With apples it is not so generally recognized. The author of the bulletin points out that the type of trees with which renewal is not practicable is "that type whose heads have been formed at an extreme height from the ground, and whose naked branches, from that elevated point of divergence, extend many more feet upward and outward with no intervening smaller branches." This type of tree is difficult to handle satisfactorily. A tree which was headed moderately low and whose lower branches are in good condition can be successfully renewed.

A MAMMOTH SIGN.

(*See illustration on next page.*)

The mammoth electric sign just erected by the Oliver Chilled Plow Works at South Bend, Indiana, is one of the modern wonders of the world, being the largest of its kind, and is attracting widespread attention. While it is impossible to do full justice to this triumph of the electric art, the illustration is a very good effort in that direction.

This sign is placed at the top of the plow company's new five-story warehouse and is visible far out into the surrounding country. It extends the entire length of the building, a distance of 250 feet. The trade mark portion of the sign is a very prominent feature, the highest point of the letters in same being at the center, 42 feet above the base line and the plow shown, measuring 59 feet in length.

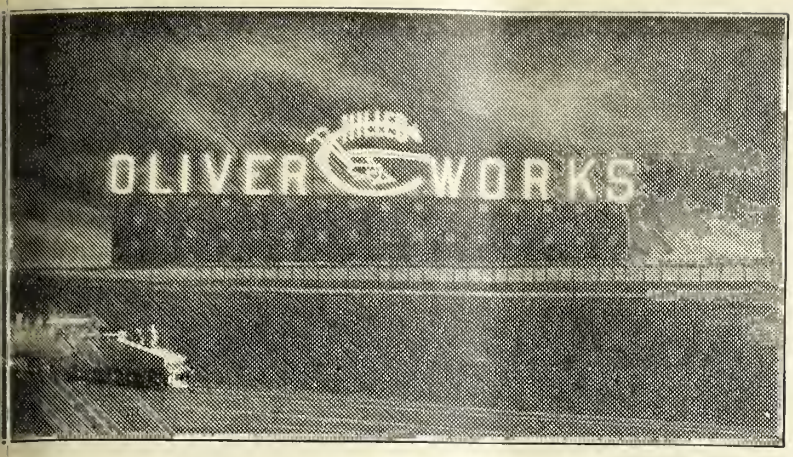
The letters in the words "Oliver" and "Works" are each 18 feet high by 14 feet wide.

A total of 3,200 lamps is required to properly illuminate this majestic sign and the light sent out casts its protective rays over the entire quarter of the city in the neighborhood of the Oliver plant.

Such a light would ordinarily be considered very expensive and a luxury, but in this case the cost is minimized by reason of the electricity used being generated at the power plant owned and operated by the Olivers, located something more than a mile distant on the banks of the St. Joseph River and designed primarily to furnish power for their great factory.

An illumination of this extensive character naturally consumes power, and 165 of the 320 horsepower generated by a single one of the 12 turbine wheels at their electric power station is required to keep this "Electric Marvel" brightly burning, making its light visible through the darkness for many miles, and so plain that the name "Oliver Works" and the immense trademark can be clearly distinguished and read for a distance of several miles.

Located as this sign is—very near to the main line of the Lake Shore & Michigan Southern and Grand Trunk Railways—travelers will have a fine opportunity to see for themselves this "Pillar of fire by night," which is at once a triumph of invention and science and a tribute to the enterprise of its projectors and owners.



Mammoth Electric Sign. Oliver Chilled Plow Works, South Bend Ind.

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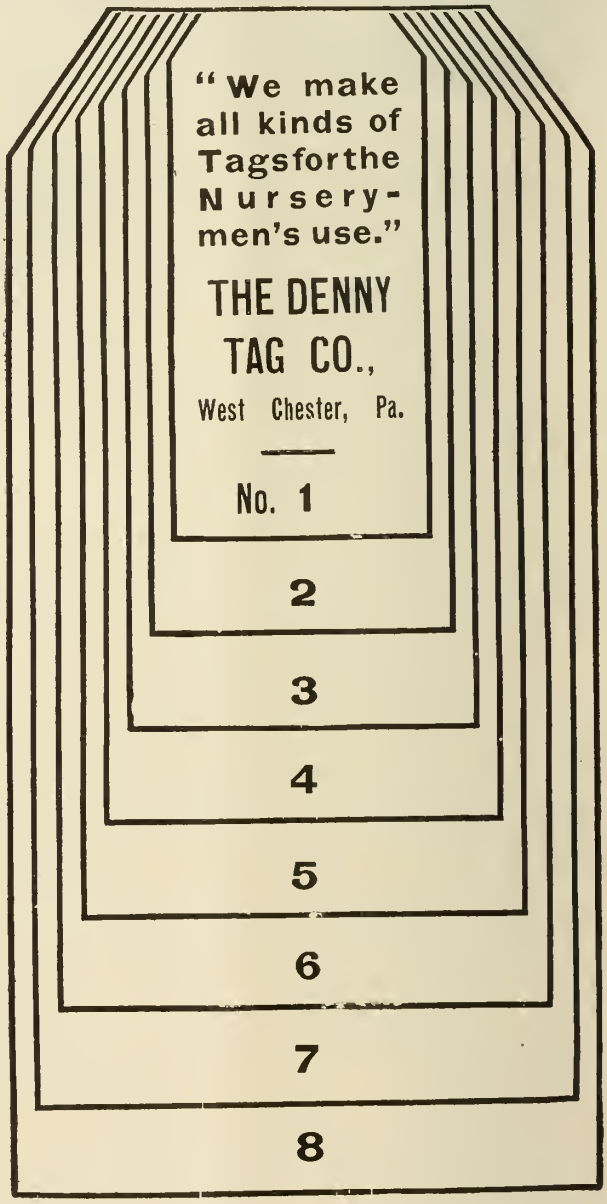

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Write for special prices, lists, catalog, etc.

SCHAUM & VAN TOL,
Boskoop, Holland,

WHOLESALE GROWERS OF

H. P. and TREE ROSES, RHODODENDRONS, HARDY AZALEAS, BOXWOOD, PÆONIES, CONIFERS, Etc. Also a full line of Boskoop grown stock.

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UNION NURSERIES,
Oudenbosch, Holland,
(H. W. VAN DER BOM, Director.)

SYNDICATE OF PRINCIPAL GROWERS
OF

NORWAY and SCHWEDLER MAPLES, HORSE CHESTNUTS, RIVERS PURPLE BEECH, THORNS, LIMES, ELMS, PLANES, Etc. Also Full Line of Evergreens. Large Quantities. Lowest Prices.

Write for special price lists, catalog, etc.

WE ARE DIRECT IMPORTERS OF

ENGLISH MANETTI, RHODODENDRONS, Etc. JAPANESE NURSERY STOCK, MAPLES, SCIADOPITYS, TREE PÆONIES, THOYA, JAP. BULBS, Etc.

RAFFIA, Red Star Brand.

THE NURSERYMAN'S GRADE.
LONG, STRONG WHITE STRANDS IN BRAIDED HANKS.
Stock always on hand. Samples sent free.
BALE LOTS ONLY.

SHIPPING. We have our own Custom House Department. Special facilities at Havre, Antwerp, Rotterdam, Southampton, Hamburg, etc. Lowest rates consistent with perishable nature of stock.

McHUTCHISON & CO.
17 Murray St., NEW YORK

Dreer's Herbaceous Pæonies.

We are now booking orders for delivery during the latter part of September and early October for the following select list of Double Pæonies of which we have an exceptionally large stock of our own growing **strictly true to name**, all in strong divisions with from 3 to 5 eyes each.

NOTE—Special list of interesting prices will be mailed on application.

Agnes Marie Kelway. Rosy white guard petals with creamy white centre.
Achille. A beautiful soft mauve rose changing to almost pure white.
Alba Plena. A useful white cut flower variety.
Andre Lauries. A fine tyrian rose, late.
Artemise. Outer petals bright lilac rose, centre white with silvery rose markings, a fine large flower.
Canary Guard petals white, centre yellowish changing to pure white.
Chrysanthemiflora Rosea. A fine large deep rose pink with paler shadings in the centre, a fine cut flower.
Duc de Cazes. Guard petals tyrian rose, centre soft rose-pink a beautiful formed flower useful for all purposes.
Duchess de Nemours. An extra fine large pure white.
De Jussieu. Pale lilac rose with creamy white rosette shaped centre.
Edulis Superba. Soft mauve with lighter shadings.
Festiva Alba. Popular white for cutting.
Festiva Maxima. Pure white, centre petals occasionally tipped red, this is the very large white variety the most popular for cut flowers.
Humei. Rose pink.
Lady Bramwell. A beautiful silvery rose of large size and fine form.
Lamartine. Solferino red shading lighter to the centre.
Louis Van Houtte. Brilliant crimson maroon of good size and very free flowering.
Mme. Callot. White, tinted with rose when first opening changing to creamy white, a fine large flower.
Marie Lemoine. An extra free flowering large late ivory white.
Ne-plus-ultra. Violet rose guard petals, centre mauve rose with lighter edges.
Paganini. Light solferino red with lighter centre, a medium sized but well formed flower and very free.
Pomponia. Rosy mauve guard petals, primrose yellow centre changing to creamy white.
Queen Victoria. A good early white.
Rosea Elegans. Guard petals silvery rose, centre creamy white suffused with rose; a fine large flower.
Rubra Triumphans. Rich carmine purple with prominent yellow stamens.
Victoire Tricolore. Guard petals delicate lilac rose, centre light salmon yellow.
Whitleyi. A fine early white.

HENRY A. DREER, Inc.,
714 Chestnut Street, Philadelphia, Pa.

THE L. GREEN & SON CO.

PERRY, LAKE CO., OHIO.

Offers for Fall '07 and Spring '08, one of the most complete assortments in the country.

HEAVY on Std. and Dwf. Pear, European, Japan and Native Plum, Peach, Ornamental Trees and a fine lot of Poplars, including 1 yr. whips. Lots of shrubs, vines, roses, evergreens, herbaceous and perennial plants. Also a nice lot of 1 yr. grapes that promise to be good stuff.

Correspondence solicited and inspection invited.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS. IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR FALL 1907,

a very complete assortment of Fruit, Shade and Ornamental Trees, Shrubs, Roses, Evergreens, Small Fruit and Herbaceous Plants, Forest Tree Seedlings in large quantities, including Catalpa Speciosa (genuine) for commercial Forest planting. Tree seeds of all kinds in season. Special prices quoted on the following trees: Tulip, Poplar, Catalpa Speciosa Am. Sycamore, Am. Linden, Green Ash, Eup. Mt. Ash and Oak Leaf Ash, Am. Elm, Red, White, Swamp and Burr Oak from 5 to 12 ft. Write for prices.

THE DONALDSON COMPANY,

WARSAW, KENTUCKY.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application. Write direct, I have no agent.

The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES, Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

P. OUEWRKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

BLACK LOCUST, HARDY CATALPA, RUS. MULBERRY, HONEY LOCUST AND OSAGE SEEDLINGS

by the 1000 or car lots.

Send us a list of your wants and *don't buy* until you have our prices.

C. M. HURLBURT, Mgr., FAIRBURY, NEBR.

GOOSSENS & HELLEMONS, OUDENBOSCH, HOLLAND.

(Formerly C. ESCHWEILER.)

Growers of Hardy Ornamentals, Forest and Avenue Trees, Conifers, Evergreens and Shrubs; also a fine line of assorted Seedlings, at reasonable cost; Supply only **A 1 QUALITY!** For New Trade List, now issued, Address the American Agents:

August Rölker & Sons, New York, P. O. Box 752 or 31 Barclay Street.

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

ROSES

On Their Own Roots Our Great Specialty.

We have **PHILA. RAMBLER** in all sizes—Phila. Rambler is a remarkable good hedge plant. We know of some hedges that are sensationally beautiful when in bloom.

CANNAS. We have a long list of the very best sorts, all colors, and including Dwarf, Tall, Giant Flowering and Bronze leaf varieties.

SHRUBBERY.

Viburnum Plicatum (Japan Snowball) we have all sizes from 12 inches up to 5 ft.

Hydrangea Pan. Grand. 2 to 3 and 3 to 4 ft.
Spireas, Van Houtte, A. Waterer, Frobeli, Blue.
Deutzias, Gracilis, Gracilis Rosea, Lemoini.
Altheas, Jeannie D. Arc, Banner, Dble. Red and Purple.
Berberry, Thunbergii all sizes up to 3 ft.
California Privet, 3 ft. up to 6 ft.
Honeysuckles, Heckrotti, very fine, Golden, Haliana, Red Coral.
Weigelas Rosea, Rosea Variagata, Floribunda, Candida.
Hibiscus Crimson Eye.

Send for our illustrated catalogue and trade list.

THE CONRAD & JONES CO.
WEST GROVE, PA.

ESTABLISHED 1780.

Andre Leroy Nurseries

BRAULT & SON, Directors,

ANGERS, FRANCE,

are now booking orders for

SEASON, 1907-1908.

FOR NURSERY STOCKS OF THEIR OWN GROWING, GRADING AND PACKING.

For Quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

TWO HUNDRED ACRES FIELD GROWN ROSES

Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

RICH, MISS.

When writing to Advertisers mention The National Nurseryman.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

FOREMAN WANTED

in our Packing and Storage Department, which is under cover. Must be experienced and trustworthy. A good steady position for the right man. Apply by mail only, stating experience, references, and salary expected.

CHASE BROTHERS COMPANY,
ROCHESTER, N. Y.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

"Our trees are stocky."

GRAFTED PECANS

AT

WHOLESALE.

THE NUT NURSERY COMPANY,
R. C. SIMPSON, Mgr., - - - MONTICELLO, FLA.

ORNAMENTAL STOCKS

We Grow

300 varieties of Conifers, 1 to 4 years old.
1200 varieties of Ornamental Trees and Shrubs, 1 to 3 years old.
1600 varieties of New and Old Ornamental Trees and Shrubs in all sizes.
250 varieties of Climbing Plants.
400 varieties of Conifers 1 to 4 ft. high.
400 varieties of Perennials.
800 varieties of New and Old Roses.

NURSERIES 420 ACRES.

We Have No Agents.

Write direct to us and ask for wholesale catalogues,

Transon Bros.' & D. Dauvesse's Nurseries,

BARBIER & CO., Successors,

16 Route d'Olivet, ORLEANS, FRANCE.

PAN HANDLE NURSERIES,

GREENFIELD, IND.

Offer a complete general assortment of

NURSERY STOCK,

Large Stock of Fruit and Shade Trees, Small Fruits, Roses, Ornamentals, Forest Tree Seedlings, etc., etc.

SPECIALTY:
DEALERS' COMPLETE LIST OF WANTS.

Packing and other facilities unexcelled.
Please allow us to price your want list.

J. K. HENBY & SON, Greenfield, Ind.

LABELS FOR NURSERYMEN.

THE BENJAMIN CHASE CO., Derry, N. H.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

When writing to Advertisers mention The National Nurseryman.

The Capital Nurseries

Station A. TOPEKA, KANSAS.

J. H. SKINNER & CO., Proprietors,
Successors to PETERS & SKINNER.

WE OFFER

Apple, Cherry, Peach, Plum, Apricot,

Keiffer and Garber Pear.

Forest Tree Seedlings,

Mahaleb Seedlings, Apple Seedlings,

Keiffer Pear Seedlings,

Shade Trees, Weeping Mulberry,

Bechtel's Double Flowering Crab,

Flowering Shrubs, Roses, Vines,

Grapes, Currants, Rhubarb, Asparagus.

Bridgeport Nurseries

C. M. HOBBS & SONS,

—SUCCESSORS TO—

ALBERTSON & HOBBS,

BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR

FALL of 1907 and SPRING of 1908

PLUMS (large stock, all grades) European, Japan, AMERICANA, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY SEPT. 1st.

We can supply any amount of light grade pear and SMOOTH STRAIGHT Norway Maple.

WANT LISTS PRICED PROMPTLY

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

You Need Them AND We Have Them

WHAT?

WHY ALMOST ANYTHING IN THE WAY OF

Fruit and Ornamental Trees,

Grafted Pecans and Pears Especially.

WE CAN HANDLE LARGE ORDERS TO YOUR ENTIRE SATISFACTION. WRITE US

ARCADIA NURSERIES,

WHOLESALE—RETAIL,

J. H. Girardeau, Jr., Mgr. MONTICELLO, FLA.

REGRADING

has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

CHOICE ORNAMENTALS

Ask for Estimates.

HIRAM T. JONES,

Union Co. Nurseries, Elizabeth, N. J.

JAS. M. KENNEDY,

DANSVILLE, N. Y.

Nurseries at Dansville and Geneseo, N. Y.

GENERAL NURSERY STOCK,

Stand. and Dwf. Pear, Cherry, Apple, Quince and Plum, Fine stock, 2 yrs. old.

BUDS, BUDS, BUDS, free from San José Scale.

Pear, Plum, Cherry, Quince and Apple, can ship same day order is received. Send in your order, prices will be made satisfactory.

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ESTABLISHED 1870.

My Specialties for Fall, 1907.

Std. Apple, 2 year fine stock in carload lots.

100,000 Early Harvest B.B. root cuttings, fine plants.

General Line of Nursery Stock at lowest prices.

Baled Excelsior will be delivered to Western Nurserymen at low rates.
Send Want List for my Special Prices.

PARSONS WHOLESALE NURSERIES,
E. P. BERNARDIN, Prop. PARSONS, KANSAS.

Forest Tree Seedlings.

We are now booking orders for the following forest tree seedlings, all of our own growing, well graded, in sizes given below. Write us for quotations by the thousand, or in car lots. Our prices are right; so is our stock.

BLACK LOCUST,	sizes 8-12 in.	CATALPA SPECIOSA,	sizes 8-12 in.
	12-18 "		12-18 "
	18-24 "		18-24 "
	2 3 ft.	RUSSIAN MULBERRY,	sizes 6-8 "
	3-4 "		8-12 "
HONEY LOCUST,	sizes 4 8 in.		12-18 "
	8-12 "	OSAGE ORANGE,	sizes 4-8 "
	12 15 "		8-12 "
BOX ELDER,	sizes 4 8 "		12-18 "
	8-10 "		18 24 "
	10 15 "	BLACK WALNUT,	sizes 12-18 "
	15-24 "		18-24 "

GERMAN NURSERIES,
CARL SONDEREGGER, Prop., BEATRICE, NEB.

Winfield Nursery Company

WILL BE IN THE MARKET
AS USUAL, WITH

Best Quality Mahaleb,
Black Locust,
Catalpa Speciosa,
and other Seedlings and
Fine Line of Budded Stocks.

WINFIELD NURSERY COMPANY,
Winfield, Kansas.

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THE WILLIS NURSERIES AT OTTAWA, KANSAS, OFFERS FOR THE FALL OF 1907 AND SPRING OF 1908, A GENERAL ASSORTMENT OF CHOICE NURSERY STOCK INCLUDING A CHOICE LOT OF FOREST SEEDLINGS IN ALL GRADES; 500,000 BLACK LOCUST, 200,000 CATALPA, ASH, BOX ELDER AND MULBERRIES, 10,000 PRIVET AND A CHOICE ASSORTMENT OF SHRUBS, ROSES ETC. ∴ ∴

WRITE FOR PRICES.

A. WILLIS, Ottawa, Kans.

Cedar Hill Nursery AND Orchard Co.

J. W. SHADOW, Prop., WINCHESTER, TENN.

Apples, Peaches and Kieffer Pears.

We are pleased to announce that we will have our usual, large supply of **Apple** and **Peach**. A good supply of Pear. **Heavy on Kieffer** We grow a general line of Nursery Stock in large quantities, and are in a position to fill large orders. Car load lots a specialty. We solicit inquiries.

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE VINES

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

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R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1907

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md.

Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

THE FRASER NURSERY,

JOHN FRASER Proprietor,

HUNTSVILLE, ALA.

Our stock for Fall 1907 and Spring 1908 includes choice blocks of Cherry, Standard Pear, Quince and June Budded Peach in large grades. We will also have a good supply of assorted Roses and Magnolia Grandiflora. Will be pleased to quote prices now on any of these items. We invite correspondence, for special budding, from buyers of Peach and Plum.

BOX STRAPS

Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

Offers for Fall Shipment:

One, Two and Three-year Apple, Two-year Kieffer Pear, Two year Sour Cherry, One-year Peach, in car-load lots. A good assortment of Japan Plums, one year and Mariana Stocks. Ask for prices.

FOR SALE OR EXCHANGE

Silver Maples and Carolina Poplars, 8 to 10 ft.

Choice stock and sure to give satisfaction. Price very low. F. O. B.

R. R. HARRIS, Harrisville, W. Va.

WANTED

A nurseryman, who has had practical experience in fruit tree nurseries. Must be a good budder and grafter. A good opening for a young, energetic man, who is not afraid of work. Address, giving references,

Fancher Creek Nurseries, Fresno, California.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc.
Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

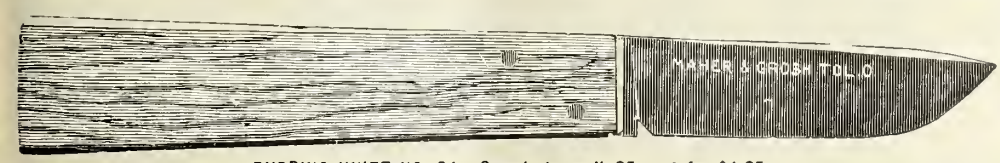
Geo. E. Dickinson, 1 Broadway, N. Y.

J. F. ROSENFIELD, West Point, Nebr.

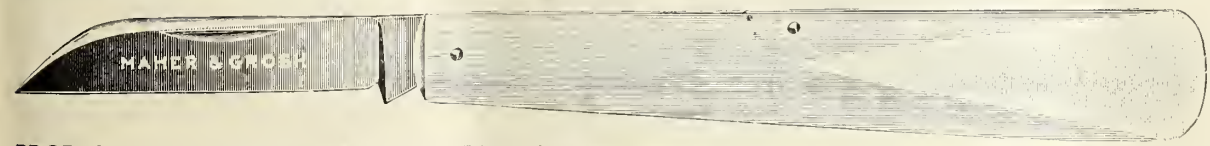
WHOLESALE GROWER OF

PEONIES

Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.



BUDDING KNIFE NO. 94. Sample by mail, 25c.; 6 for $1.25.



PROPAGATING KNIFE No. 89½—50c. Blade Closes; White Handle.

NURSERYMEN'S

KNIVES

Hand forged Razor Steel Warranted

Nursery Pruner, 50cts.
Pocket Pruner, 60cts.
Pocket Budder, 35cts.
Pocket Grafter, 40cts.

We Solicit Direct Trade

Send for 12-Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, Ohio.

Viburnum Plicatum

We have a large stock of this valuable shrub in all sizes.

Pin and Red Oaks

Of all sizes from four to sixteen feet.

We offer one of the largest collections of Ornamental Stock in the country.

Japan Plums

All varieties, largely of Abundance and Burbank.

SEND US YOUR LIST OF WANTS.

HOOPES, BRO. & THOMAS COMPANY,

WEST CHESTER, PENNA.

Philadelphia Office,
220, 222, 224 Stephen Girard Building.

Established 1853.

The Best Tree Digger on Earth

Write for Descriptive Circular
and Prices to

STARK BROS. NURSERIES AND ORCHARDS CO.

LOUISIANA, MO.

GREEN RIVER NURSERIES.

WANTED: to sell a partnership. Cannot attend to all the business. Have a splendid trade over all this section of the state, and adjoining states.

Write for terms and Catalogue of stock.

BOWLING GREEN, KENTUCKY.

GIUSEPPE SADA,

SEED MERCHANT,

MILAN, ITALY.

Exporter of European Forest Trees, Shrubs and Fruit Trees, Seeds.

Specialties: Black and Honey Locust, Mulberry, Myrobolans.

Correspondence Solicited.

Catalogue and Prices Free on Application.

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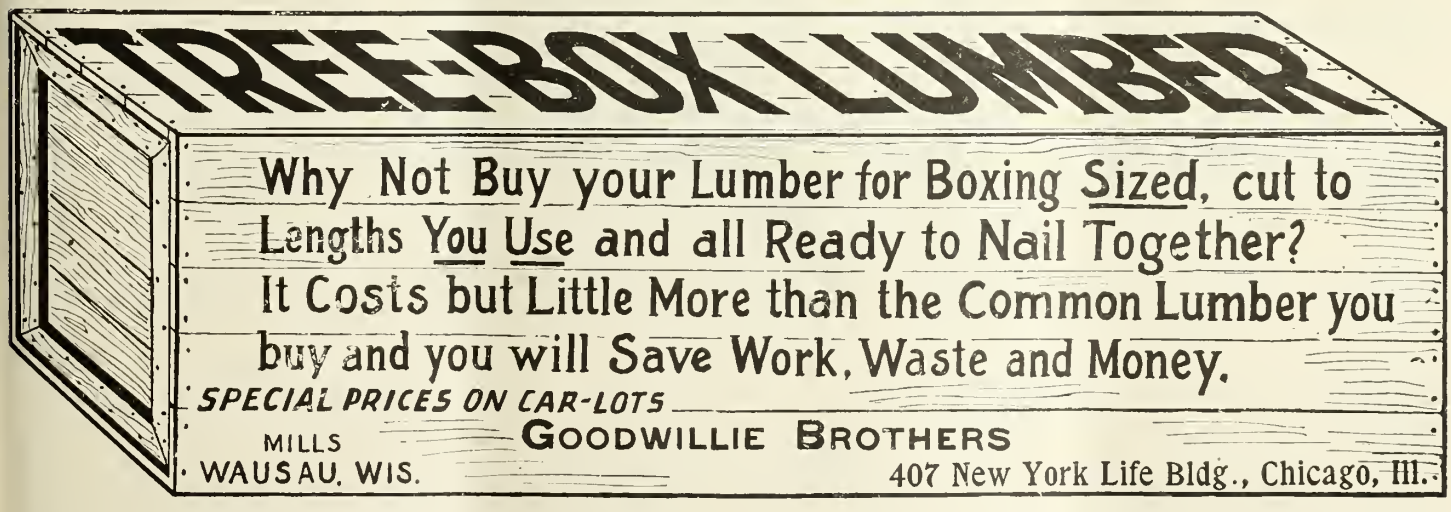
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(OVER)

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We do want to confer with nurserymen who want to use our unique facilities for such color-work as we have been showing on this leaf for the past year and a half, and who want enough—three thousand or more—of a subject to make it practicable. Color is sure to be used more freely in future, in selling propositions; we are looking to the time, not far distant, when we shall be making catalogues with real colored illustrations on every page. That is surely to be the next advance in catalogue-making.

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is a sort of magazine we send to our customers, hoped-for and present, and to our friends. Does it come to you once in a while? If not, and if you care to read sixteen pages of rather lively shop-talk, with a series of papers about the detail of catalogue-making based on a quarter-century's experience, and an occasional journey to a good nursery, ask for it. It is issued whenever we please, and sent to whom we please, and to whom *it* pleases, without charge. The first number is out of print, and the second number is just born, with enough reserve copies to keep it in print a little while.

Catalogue-Making

is a subject we've been singing these National Nurseryman songs about for a long time to *you,* Mr. Nurseryman! This month we warble a short verse only. It is, Get in line *quickly* if you want anything before March next from us to help you sell your good stuff at good prices in a good way.

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73 Harrison Yellow.
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75 Moss Perpetual, Red, White, Pink.
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COLORED PLATES, PLATE BOOKS, CATALOGUES AND PRINTED FORMS FOR NURSERYMEN.

Shasta Daisy hedge on the grounds of the Oregon Nursery Co., Salem, Ore.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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AN IMPORTANT NURSERY OF THE NORTH-WEST PACIFIC.

THE OREGON NURSERY COMPANY.

[Special Correspondence of the National Nurseryman.]

At the recent meeting of the Pacific Coast Association of Nurserymen, held in Salem, July 10–12, two features stood out as exceedingly pleasant. These were the Cherry Fair, with its magnificent display, and the forenoon spent in inspecting the surrounding nurseries, especially those of the Oregon Nursery Co.

On the beautiful summer morning of July 12th a party of forty nurserymen left the Willamette Hotel at Salem for this delightful drive. The figure below shows the happy party all ready for the start. It is needless to say that we were all in good spirits.

A four-mile drive brought us to the Oregon Nursery Company's grounds, where we were first driven through the large blocks of ornamentals. Among some of the chief attractions were a block of fifteen thousand cut-leaf birch, some variegated-leaved box elder, and a large block of thrifty evergreens. The Pacific Coast is the natural home of the evergreens, and the company is meeting the demand for them for ornamental purposes. Figure 2 is a view showing some of the evergreens with the cut-leaf birches at the extreme left. Down at the end of the ornamentals we were greeted by a sight we shall never forget—a landscape gardener's paradise—a five-hundred-yard bank of Shasta daisies. (See frontispiece, and note the common wild daisies at the edge of the grass.) As we left the group of ornamentals we were driven through blocks of splendid roses, small fruits, and some fine young walnut trees, which calls to mind that this

(1)—Members of Pacific Coast Nurseryman's Association starting for a trip through the nurseries. Salem, Ore., July 12, 1907.

(2)—A glimpse of the evergreens at the Oregon Nursery Co.

company is one of the leaders in the walnut industry of the Pacific Coast, making a specialty of the Franquette, the nuts and scions of which they obtained from the famous Vrooman orchard of Santa Rosa, Cal. The walnut seems destined to a bright future on the Pacific Coast if properly handled, and these men are doing what they can to inform people rightly on this subject.

Our route now took us across the highway into the very heart of the million and a half of fruit trees. This was a sight that called forth words of praise and admiration from all sides. It was a picture that would delight any lover of prime nursery stock and showed what a congenial climate, coupled with energy, good care and skill, will do. One of the first blocks consisted of cherries, and they were for their age, without exception, hard to excel. (Figure 3 shows these trees.) Among them was a large number of Lamberts, a cherry every Oregonian is proud of, because it originated here and in its native soil

(3)—One year cherry buds, Oregon Nursery Co.

reaches the highest degree of perfection, standing as a leader among the cherries.

We now drove on, past row after row of pears and apples. A block of two-year-old apples (figure 5) attracted much attention.

From the nursery a return drive was made to Salem by way of the Quaker Nurseries, where Mr. Lansing, the genial proprietor, treated us to luscious cherries. From here we went to the packing sheds of the Oregon Nursery Company. These are simply models of what systematic work will do. Every precaution is taken that the two million trees handled by two hundred fifty men shall pass from nursery to purchaser without a blunder, and at the same time at the lowest possible cost to the company.

We did not see the new seedling stock that will be budded this season, because the Oregon Nursery Com-

(5)—Two year apple block. A fine block of two year old apple, Oregon Nursery Co.

pany have all this on a new tract of a thousand acres which they have purchased near the town of Reedville, about fifteen miles from Portland. Here they have one of the finest tracts in the State, admirably located, as far as steam and electric facilities are concerned. At this point they are to build the little town of Orenco, which will be the home of the members of the company and the employees. This town is to be an ideal one from utilitarian and æsthetic points of view, and will certainly be unique in being established by a nursery company.

The company consists of Mr. A. McGill, who looks after the nursery end of the company; Mr. M. McDonald, who attends to the business end; and Mr. F. W. Power, who heretofore has conducted the branch nursery at Chico, Cal. Their business was established about 1890, and they lived through that time of awful depression for nurserymen during the early nineties. Since then their growth has been co-extensive with that of the Pacific Northwest and to-day they enjoy the general confidence of the fruit growers and have an enviable reputation over the whole Pacific Coast.

ONE OF THE GUESTS.

Members of Pacific Coast Nurseryman's Association in the grounds of the Oregon Nursery Co., Salem, Oregon, July 12, 1907.

CHERRY TREES AS A NURSERY PRODUCT.

W. F. HEIKES, HUNTSVILLE, ALA.

Among the leading kinds of fruit trees propagated by nurserymen of the United States, the cherry is the most difficult.

There are imported into the United States from France annually from 10,000,000 to 15,000,000 cherry stocks. Fairly trustworthy figures show that from this number of stocks, the output of merchantable trees, at two years old, of all sizes, is not more than one-third of the number of stocks planted, and of these not more than one-third will grade five-eighths and up.

A large proportion of the cherry stocks are planted in small lots by the many local nurserymen throughout the United States, who calculate on growing a sufficient number of trees to supply their local trade and their trade through agents. Their output usually comes far short of their expectations, and this miscalculation gives the wholesale cherry grower a chance for business.

The Huntsville Wholesale Nurseries, which I have the honor to represent, have the reputation of being the largest growers of cherry trees in the United States. As a matter of interest to the members of this Association, I will give the number of cherry trees produced by these nurseries for several years past:

In the year 1904, we produced 330,000 2-year old merchantable trees; in 1905, 226,000; in 1906, 216,000. In the present year we will have for market 323,000 2-year old cherry trees, including all grades. The proportion of the higher grades will be very small this year, because of two very unfavorable seasons in succession.

From the crop of 1904 we sold to one man 210,000 trees—probably the largest sale of cherry trees ever made to one man in one order. The name of this man I need not repeat, as all can guess.

I will leave out of this paper all reference to the mistakes made in propagation, and in the care and handling of cherry trees from the time of receiving the stocks until they are marketed.

The first difficulty encountered in cherry-growing is in getting a stand. So much depends upon the condition of the plants upon their arrival from France. There are various causes of injury which may happen to them from the time the plants leave the grower in France to the time of their arrival at destination in this country. There is more or less danger of damage from freezing or heating on the way. Sometimes the plants are dug too early and suffer from being heeled in, or they are dug when the ground is too wet, and packed in boxes before they are separated from the mud and properly dried. In this condition they start to grow in the boxes and however carefully they may be handled there is sure to be a heavy loss in planting.

In some instances, the plants are grown upon land unsuited for their growth, when they suffer in health, quality and appearance. Such plants are abnormally branched and usually present a blackish appearance of the roots. It frequently happens that these unhealthy plants are packed in layers mixed through the boxes with layers of bright, healthy plants. This is the French method of forcing their less desirable stock upon their customers. An American nurseryman would submit samples of his poorer grades before shipping, and he certainly would not pack the better and poorer grades together in the same box.

However just the cause of complaint in regard to the quality of the grade of plants received from France, I have never been able to make a Frenchman understand English when I have asked for a reduction from the face of his bill. The only way I have been able to make him understand is to state the case truly and firmly, write the figures plainly, and hold to them.

An American nurseryman is broad-minded enough to acknowledge his mistakes and short-comings, and when reminded of them stands ready to make the proper amends, usually leaving his customer to decide what is just in a settlement of differences.

The stocks once planted—if in good condition—usually start to grow quickly and soon present a beautiful sight, especially when looking from the ends of the rows towards the sun. Then the nurseryman's heart leaps high and he begins to dream of 20c. cherries—to be paid for in three years from June 1. By and by a few tiny black specks begin to appear on the lower leaves of the plants; sooner, if the season is wet; later, if it is dry, and in either case he knows he must begin budding and that now is a race between him and the "Leaf Spot," for it will be only a question of a short time when the plants of his beautiful block will be denuded of their foliage—standing with drooping tops and branches, a sad picture of disolution. Should he win the race with the "Leaf Spot" and get a good stand of buds, his plants must still remain exposed to the vicissitudes of the climate, insects and other mishaps.

When the time comes to market his crop, he finds in making count that he has only one-third of a stand, and that the price of his trees has dropped to disappointing figures. He now recalls the fact that he is three years older, and many years wiser, and concludes that the next planting of cherry stocks he makes will be on contract—with a younger man of less experience to grow them for him.

Augusta, Ga.—The Georgia State Horticultural Society elected officers as follows: President, P. J. Berckmans, Augusta; secretary, J. B. Wright, Cairo; treasurer, L. A. Berckmans; M. B. Jones, J. S. Stranhan, R. E. Park, Z. T. Walker and Dr. Neil McInnes, vice-presidents. Cornelia, Ga., was chosen as the next meeting place, the second week in August of next year. P. J. Berckmans and Professor, Hugh N. Sterns were appointed delegates to the National Fruit Growers' convention.

Seattle, Wash.—The Woodland Seed and Floral Company has been incorporated with a capital of $12,000 by Alfred Peterson, Ed. Marriott, J. Anthon, and A. L. Abling.

Members of Pacific Coast Nurseryman's Association in the grounds of the Oregon Nursery Co., Salem, Oregon, July 12, 1907. Viewing one year apple buds.

SHALL WE HAVE UNIFORM INSPECTION LAWS, AND WHAT HAS BEEN DONE TO SECURE SUCH LAWS?

PROF. THOMAS B. SYMONS, EXPERIMENT STATION, MARYLAND.

Gentlemen of the Southern Nurserymen's Association:

It is needless to say that I consider it a privilege to be able to meet with this Association, it being my first opportunity.

I had no option in the subject assigned me to discuss with you, and it is only left for me to cite briefly some ideas and suggestions which have occurred to me from time to time in my inspection work in Maryland.

There is no doubt but that the subject of nursery inspection in its various phases is steadily growing in importance, both to the nurseryman as well as to the orchardist. It is due the orchardist that in a contract with the nurseryman for so many trees at such a price that he receive his money's worth of good, sound, clean trees or plants; and ignorance on the part of the nurseryman in sending out diseased trees or plants is not excusable for breaking his contract.

It is likewise due the nurseryman that he secure a reasonable profit from the business, and if the expenses in connection with keeping his nursery free from the various pests accordingly increases the cost of the production, which surely is the case to-day in a well conducted nursery, the price of nursery stock must certainly increase at a corresponding rate.

I believe in a thorough inspection of the nursery, and I believe the nurserymen, as a whole, are desirous of such an inspection being as rigid as possible. But it is due them that such an inspection, together with the following requirements in the distribution of their stock, entail as little loss and trouble as is consistent in the distribution of clean, healthy stock; and I include in this category the selling of nursery stock for interstate traffic.

In my opinion, the time is past, in the East at least, when the inspector is justified in putting a nurseryman out of business because he has a little scale, or other insect disease in some parts of his nursery, provided he agrees to follow closely all the directions of the inspector. That is to say, I believe he has a right to sell what clean, healthy stock he has on his place; and this condition also applies, in my mind, in regard to the crown-gall. The nurseryman should be required to discard and burn all such stock in his nursery that is infested or affected, and treat the remaining in accordance with instructions. This is different from having him destroy the whole block of trees, no matter how many good or bad it may contain, as many of us have required for some time.

One of the troubles of the nurserymen to-day is that after he has complied with the laws of his own State, he has first to inquire into the requirements of the laws of another State and then meet them, before he is able to sell nursery stock in the given State. This sometimes entails considerable delay and expense. Many State laws differ in their requirements for interstate traffic of nursery stock, and with the continual changes that take place from time to time, it is difficult for the nurseryman to keep informed. Further, many of the States require that the out-State nurseryman secure tags from their proper officials before such shipments can be received into it.

It is for these reasons that the nurserymen and the inspectors are desirous of securing some uniformity in the transportation of interstate nursery stock. The subject has been agitated for some time, both at the nurserymen's conventions, and also at meetings of the Horticultural Inspectors and Association of Economic Entomologists, with a view of devising some means whereby uniformity of interstate traffic of nursery stock can be secured. I was very glad to know that at the recent meeting of the National Association of Nurserymen the Association unanimously concurred in the resolution as passed by the Association of Economic Entomologists, which was so intelligently presented by the sub-committee on legislation of the Nurserymen's Association, giving in full the progress made in this subject to date. For the benefit of those who may not be familiar with same, I herewith cite that part of the resolution, which was adopted by both bodies, affecting interstate traffic.

"That the Congress of the United States be asked to enact a law empowering the Secretary of Agriculture to make such regulations as may be deemed necessary in order to secure uniform methods of nursery inspection and certification of all nursery stock which passes into interstate commerce.

That all State or territorial officials in charge of nursery inspection be urged to accept the certificates at their face value and that in States where laws are now in force, which will not allow the acceptance of such certificates, the inspection departments be requested to endeavor to secure such State legislation as will make this possible.

That each State should make and enforce such regulations as its local authorities may deem necessary, but that they be made as similar to those of the United States Department of Agriculture as practicable."

A representative was appointed by the nurserymen to act with representatives from the other two associations, forming a committee to push this desired legislation before Congress. Further, the nurserymen are to be congratulated for the passage of resolutions providing funds to cover expenses of the representatives.

In discussing the above resolutions, there is some doubt as to the degree of government supervision that may be practicable and desirable. There seems to be a general tendency of the national government to take over and control many of the State laws. Personally, while being decidedly in favor of upholding the State laws, I would not object to the government controlling entirely the nursery inspection, if such procedure would eliminate the present undesirable conditions; yet, I fail to see the feasibility of this course on the part of the government. I do not believe it would be practicable for the Secretary of Agriculture to employ a large force of competent men for,

say two or three months in the year, in order to inspect the nurseries of several States. My idea of the degree of government supervision would be as follows:

To allow the inspectors of the several States to continue the inspection of their respective nurseries. In performing this inspection, to be guided entirely by rules prescribed by the government, which should be sufficiently elaborate to meet conditions in every State of the Union, for there is no doubt great variance in the manner that an inspection of a nursery is conducted in various States. This could be made uniform, and the rules promulgated by the government should be concurred in by the several associations or their representatives mentioned heretofore. Further, the chief inspector of the States should be requested to make out an affidavit to the proper official of the government that such a nursery had been inspected by the required rules, and he should attach therewith the exact condition of the nursery as he found it by the inspection. The nurserymen desiring to make interstate shipments can then apply to the government for an interstate tag, and the discretion of issuing same to him can be decided by the government. It may be possible for the government to issue tags to nurserymen allowing them to only ship in certain States of the Union, and not in others.

The procedure above outlined refers, of course, only to interstate shipments.

This occurs to me to be a plan whereby uniformity of inspection can be secured, and the present troubles of the nurseryman in regard to interstate traffic can largely be mitigated; and yet I believe it would be acceptable to all those desiring to see the State laws upheld. In States where the existing regulations would not permit of their accepting such interstate tags, I believe by special effort on the part of the respective officers such an arrangement could be satisfactorily made.

These are my views as to an amicable arrangement between the government and the States to solve the problem, and I only offer same as a suggestion to those who now or will have this subject in charge.

In closing, I want to urge upon every member of this Association the need of united support of both nurserymen and inspectors in the effort to secure the desired legislation by the next Congress. I would suggest that previous to the convening of Congress, every nurseryman and inspector write to his respective representatives, calling their attention to the subject and petitioning their active support in the passage of such legislation.

OFFICERS ELECTED.

Chas. T. Smith, of Concord, Ga., was elected president; C. M. Griffing, of Jacksonville, Fla., vice-president, and A. I. Smith, of Knoxville, Tenn., secretary-treasurer, for the ensuing year.

The next convention will be held in Atlanta, Ga., August 19-20, 1908.

APPLE GROWERS' CONGRESS.

A successful meeting of this organization was held in St. Louis on Aug. 13th and 14th. The estimate of the apple crop differed materially from that of the International Apple Shippers given out at their meeting held earlier in the month at Atlantic City. The *Globe-Democrat* reports the meeting as follows:

A 25 per cent. apple crop is expected by the Apple Growers' Congress, which concluded its two days' session yesterday afternoon at the Southern Hotel. This estimate is from all the apple-growing sections except Oregon, Washington, California, Idaho and Canada. It is based upon data gathered by George T. Tippin, the statistician, and a committee consisting of L. A. Goodman, J. W. Stanton, M. L. Dean, S. W. Smith and J. W. Patton.

With the exception of the New England figures, the committee considers the estimate very accurate. It was stated that the reports varied so much from New England that an average had to be estimated.

According to the figures gathered by the committee, Missouri will have but 5 per cent. of its last year's crop, which was a normal one. On the other hand, Arkansas will have 90 per cent. of its last year's crop, or 60 per cent. of a normal crop. Kansas, which last year had a more than normal crop, will have this year but 2 per cent. of a normal crop.

COMPARISON OF CROPS.

The percentage figures for the states, comparing this year's crop with that of 1906 and the normal crop, follow:

	Compared with 1906.	Compared with Normal.
Missouri	5	5
New York	60	50
Iowa	35	30
Illinois	15	10
Arkansas	90	60
Colorado	20	20
New Mexico	..	5
Kansas	1½	2
Nebraska	15	10
Virginia	50	30
Indiana	20	10
West Virginia	60	35
Ohio	40	25
New England	70	60
Pennsylvania	40	50
Kentucky	35	20
Tennessee	30	20
Minnesota	..	15
Michigan	40	30

OFFICERS ELECTED.

The following officers were elected for the ensuing year: H. M. Dunlap of Savoy, Ill., president; M. L. Dean of Michigan, vice-president; T. C. Wilson of Hannibal, Mo., secretary and statistician; and Wesley Greene of Des Moines, Ia., treasurer. These officers and U. T. Cox of Rockwood, Ohio; R. A. Simpson of Vincennes, Ind.; J. W. Stanton of Richview, Ill., and Clark Allis of Medina, N. Y., constitute the Executive Committee. This committee will select the next meeting place.

Resolutions urging that the tariff laws be so changed as to secure reciprocal reductions in foreign tariffs to the advantage of the fruit growers were adopted. The congress also requested the secretary of agriculture to secure data each year as to the European fruit crops.

The following papers were read during the morning and afternoon sessions: "The Basis for Predicting Climatic Disturbances Calculated to Effect Fruit," Prof. Irl R. Hicks; "Relation of Size of Orchards to Economical Management," Maj. J. Mack Tanner, Springfield, Ill.; "Essentials in Handling Fruit," F. H. Simpson, Flora, Ill.; "Protecting Orchards from Spring Frosts," C. G. Winn, Griggsville, Ill.; "Advisability of Spraying in Cases of Partial or Total Failure," R. A. Simpson, Vincennes, Ind.; "By-Products of the Orchard Fruit Factory," W. J. Patton, Springdale, Ark.; "Cross Pollenation," Prof. M. B. Waite, Washington, D. C.; "Foreign Markets," Prof. W. A. Taylor, Washington, D. C. Former Lieutenant-Governor Norman J. Colman also read a report upon the pure food question.

"The time to advertise is all the time."

The National Nurseryman

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PRESIDENT, ... THOMAS B. MEEHAN
VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.: secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

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PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

IMPORTS OF WALNUTS.

The United States imported from France, during the year 1906, walnuts to the value of $12,884,658; from Germany, $3,101 worth; from France, in fruits and nuts, a total of $2,479,799; and from Germany, $56,691. There is no good reason why this country should not export just as many pecans as it imports walnuts. In shipping pecans abroad the American fruit grower can feel thoroughly satisfied that he is giving the foreign consumer something much better than that he is receiving. There is no finer nut than the pecan. It is probable, however, that the American market will consume all the available supply for many years to come. Notwithstanding the heavy planting of this nut in recent years, we feel confident that its future is assured.

SPRAYING FOR BITTER ROT OF THE APPLE.

The Missouri Fruit Experiment Station at Mountain Grove has recently published some interesting results of experiments carried on last year under the immediate direction of Mr. F. W. Faurot, for the prevention of bitter rot. This disease has been very injurious for a number of years in southern Illinois, and the Ben Davis and Jonathan region of the Southwest. The purpose of the experiment was to determine the number and time of applications necessary to control the disease. The results at the close of the season showed that the disease could be controlled successfully by making four applications of Bordeaux mixture at intervals of two or three weeks between the middle of June and the middle of August. The first application in that region should be made not later than July first, and it should be continued as late as the middle of August. This work is of the greatest importance to the middle West, where bitter rot is a viciously destructive enemy.

INFLUENCE OF INSPECTION.

Mr. Wilmon Newell, of Louisiana, states in his Circular No. 12 that since the nursery inspection system was inaugurated in Louisiana, season of 1905–6, the amount of nursery stock grown in the State increased almost 400 per cent. In 1906 the inspector examined something over 500,000 trees and shrubs. The following year the number was increased to over 2,000,000. One of the provisions of the inspection bill in that State is that "all citrous stock shipped within or delivered in the State must be defoliated." This regulation is aimed directly at the white fly, the larvæ of which occur only on the leaves of its host; so that by defoliation the amount of white-fly infested stock is reduced to a minimum." Among the dangerous enemies of nursery stock in that State, are noted, nematode root knot, cottony cushion scale, West Indian peach scale, woolly aphis, white fly, crown gall and hairy root diseases, and black knot.

"Advertising is like throwing a rubber ball—the harder you throw it the quicker it comes back."

SOUTHERN NURSERYMEN MEET.

SUCCESSFUL CONVENTION AT RICHMOND, VA., AUGUST 14 AND 15.

This active organization held the tenth annual meeting at Richmond on August 14th and 15th, John A. Young, presiding. The attendance was excellent, and the papers good in quality.

Following the address of welcome, the interesting subject of nursery inspection, presented by Prof. Symons, of Maryland, is timely and worthy careful perusal and study.

WELCOME ADDRESS OF BEHALF OF THE WINCHESTER NURSERYMEN BY ISAAC W. CRABTREE, WINCHESTER, TENN.

Mr. Crabtree spoke in part as follows:

Mr. President and gentlemen of the Association, in welcoming you to our city, I can but feebly express in words, the delight of our citizens in having you here. You have come to a town where nurserymen are always welcome. There is a warm place in the heart of every citizen of this city for any honest man engaged in the pursuit of the nursery business; and before you leave here, gentlemen, you will find that we are all nurserymen—our bankers, our clerks, our lawyers and our doctors, our merchants and our farmers are all nurserymen in spirit, if not in deed.

Winchester and Franklin Counties do not claim the distinction of being the greatest nursery center in the world, but permit them to expand and join with them their enterprising neighbors, Huntsville and Madison Cos. Ala., and then we can say to you for them, that more trees are shipped annually from these two points than from all other points combined, south of the Mason and Dixon's line, that imaginary division between the North and South, over which President Roosevelt's colored friends of the North have recently been fleeing southward for protection.

The nurserymen of this city are not selfish enough to claim for themselves all the credit for their success. We recognize in the Hon. N. W. Hale, of Knoxville, Tenn., one of our chief benefactors and promoters of our enterprises; we acknowledge with gratefulness the hustling spirits that have come to us from Alabama, Georgia, from the North, West, East and all other sections. Nearly forty years ago, the nursery business was launched in this county by the father of all our nurseries, Mr. M. J. Shadow, now retired—and from that day until the present, the business has flourished, sometimes more, sometimes less, but all the time, whether wrapped in Shadow or stormed by Hale, it has continued to advance until now wherever you travel, whether east, west, north, or south, you will find our trees. Trees, incubated and nurtured in the red clay soil of the hills of Franklin Co., will flourish in the black loam of Texas, Mississippi and Missouri as well as on their native heath; they will do well in the mosquito swamps of Louisana and the tropical regions of Florida as they do in Texas; they prosper as much in the pine lands of Alabama, the sandy hills of Georgia, in the mountain of the Carolinas and the frozen soil of the north, as they do in any other place. You will find our peaches blooming side by side with the oranges and magnolias of the South, and the cactus of the west; you will find our apples in the Ozarks of Arkansas, the cold plains of the North and North-west, the Cumberlands of Kentucky, the Allegheneys and Great Smokies in the east, and in fact, wherever you find fruit growing, there you will find some of my trees.

And, let me assure you, gentlemen of the Association, that you do not come to us unexpected, for we have long anticipated this visit from you. As an evidence of this fact, I have but to call your attention to the fact that in the early part of the present year, a certain local organization, known as the W. C. T. U., not connected with the nursery business, conceived the idea that it would be well to rid the city of certain exhilerating spirits, and the movement was put on foot to accomplish their purpose; but the nurserymen arose, and with one voice said: "Nay, wait until after the Southern Nurserymen's Association has held its convention"—and they waited.

And now, Mr. President and gentlemen of the Association, on behalf of the officials, and especially on behalf of the local nurserymen, and the citizens of Winchester, I bid you welcome. Against you, no doors are shut, no locks are bolted. Go where you will, eat, drink and be merry.

THE RETAIL NURSERYMAN AND HIS PATRON.

BY JOHN A. YOUNG, OF GREENSBORO, N. C., BEFORE SOUTHERN NURSERYMEN'S MEETING.

A patron is one who gives patronage; or as Webster puts it; to patronize, to favor. And while the patron patronizes or favors the nurseryman, the nurseryman has the power to return the favor—which he should do to his utmost, bringing about a bond of good fellowship which should place the two in a co-partnership, working for each others interests. And while I am not an advocate of cheap trees, yet the nurseryman should give full value for money received. In order to do this, it is not necessary to make cheap trees; for what is the first cost of a tree, compared to the labor of setting and cultivating until it comes into bearing? And to this should be added the value of the land it occupies; and to this may be added the time passed in the planter's life, to say nothing of his blasted hopes, should the variety prove worthless. And to this might be added the cost of the bad words he might utter, and the vital power expended in a fit of bad temper, and yet the value of the fruit he might have had and has to do without.

When all these things are taken into consideration, the first cost is but little. Hence, the nurseryman's duty is to charge the patron a price which will enable him to give the very best in variety and grade of stock. At all times to consider the patron's interests by cultivating the very best varieties to be had; to study their adaptability to different localities and conditions; to sell nothing until he has tested it or knows it to be recommended by some person who is reliable and has tested it. Better sell Elbertas and Greensboros to the end of time, than to sell something said to be better by some one you do not know to be reliable.

The retail nurseryman's duty to his patron can be summed up in the following: To get the best land possible adapted to the business, to keep it up to the highest state of fertility possible; get the best stock to be had and graft and bud varieties that are known to be good; give the best cultivation possible; handle and pack with the utmost care; if he runs short and has to buy, buy from some one whom he has every reason to believe is honest and able to furnish a high grade of stock true to name; and when he sells, to charge a price that will enable him to continue an honest, profitable business, and lay up something for that time of life, when he, as well as his patrons, should be enjoying the fruits of his labors; and in future days when they meet, the one will exclaim: "My patron, in as much as you have conferred a favor on me which is enabling me in my old age to enjoy the luscious fruits of my labor;" while the other can exclaim: "You paid me value for my products, which has enabled me in my old age to enjoy the fruits of my labor."

On the other hand should the nurseryman follow a system that would impoverish his lands, his object being to get the most possible out of his land at once, and the same out of his patron; sacrificing quality to quantity; cultivating something he knows nothing about, because he sees a possible seller in it, unloading odds and ends of stuff on customers regardless of adaptability to the locality where it is to be planted, because he finds a buyer who wants cheap stock, the planter takes the cheap stock that costs him but little; he plants it in an indifferent way, gives it poor cultivation and waits years for it to come into bearing—and when it does, all is disappointment. He meets the nurseryman and says: "You sold me worthless stock, and after all these years of waiting, I have nothing for my labor." The nurseryman says: "I am in the same boat, I raised cheap, sold it cheap, and now in my old age, I have nothing for my labor." Each look at the other with anger and contempt, turn about and go their way, each to eat sour apples the remainder of his natural days.

The Storrs & Harrison Co. of Painesville, Ohio, is noted for its extensive collection of hardy shrubs. The accompanying illustration shows a corner in the propagating house where this work goes on.

ORCHARD INSPECTORS AT WORK IN MARYLAND.

Instructions have recently been issued from the office of the State Horticultural Department, College Park, Maryland, advising the orchard inspectors to commence their work of the Inspection of Orchards in all parts of the State.

All of the Inspectors have received a course of instruction at the Maryland Agriculture College, especially designed by the officers of the Department to equip them for their work in the identification of injurious insects, and diseases, especially San José scale and peach yellows, and also on up-to-date methods of orchard culture.

Each inspector has a given territory allotted him to inspect thoroughly. He reports the number of trees inspected and of this number the per cent. that is found infested with insect pest or disease.

The Department then takes the matter up with the individual grower and requires him to either treat or destroy such affected trees. Trees infested with San José scale must be treated with an effective remedy this winter. Trees affected with peach yellows, are required to be destroyed as early as possible.

While the funds of the Department will not permit of the whole State being inspected in one year; by taking new territory each year and inspecting over 1,000,000 trees annually, the Department will shortly have had the entire orchard area of the State inspected. Special effort will be made during the coming fall and winter by the State Entomologist and State Pathologist to see that all negligent growers comply with the law which will result in better orchard conditions throughout the State. The officers of the Department will commence the annual inspection of the Nurseries of the State August 19th, 1907.

Mr. J. H. Dayton of Storrs & Harrison and chairman of the Executive committee of the Am. Association of Nurserymen, visited New York early in August. On his return he stopped in Rochester, calling at the NATIONAL NURSERYMAN office and his numerous friends in the Flower City.

NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Gentlemen:

Enclosed find check for $1.00 being subscription to NATIONAL NURSERYMAN, which we do not want to have elapse. Count us as steady subscribers.

E. SMITH & SONS.

A gang of rose budders working on manetti stock in the grounds of the Storrs & Harrison Co., Painesville, Ohio.

Correspondence.

THE THEORY OF PROPAGATING FROM THE BEST TREE OF ITS KIND.

EDITOR NATIONAL NURSERYMAN:

In a paper read before the American Association of Nurserymen, at the convention held last June at Detroit, the theory was advanced that there was a pronounced variation in the appearance and character of fruit of any given variety, due to bud variation; and that buds or scions for propagation should be taken only from bearing trees producing the best of its kind. This is a fascinating theory, but it has not been proven, as the writer of that paper admitted. An example was given of an orchard of Crawford's Early peaches, the trees having been bought from a reliable nurseryman, the fruit of which varied greatly in points characteristic of the Crawford's Early, although belonging to the same type. Notwithstanding the reliable source claimed for these trees, it is more likely that an actual mixture of two or more varieties existed before planting. The experience of many years has shown that for all practical purposes, grafting and budding is a certain way of reproducing perfections and defects of a variety; and it has been the constant practice among nurserymen to use buds and scions from trees in the nursery rows. The source of bud and scion supply is one of great importance to nurserymen and their customers, and the purpose of this paper is to call special attention to this subject.

In an orchard of several trees of a variety there are usually found one or more trees producing fruit in some degree superior to others of the same kind. This deviation can be accounted for by more or less favorable location, the elevation and character of the soil or, possibly, from being budded or grafted on stocks to which they were more or less perfectly adapted; or they may have received better care than others.

Unable to accept the theory advanced above, we would recommend a method successfully followed by us for years, and which gives practically the same results as stated in this theory. We advise taking buds and scions from bearing orchard trees, the best of their kind sufficient for a "start" in a Mother Block, and in the nursery. From these sources, buds and scions may be taken and increased in the nursery as rapidly as possible, to supply the wants of propagation. These "Starts" in the nursery rows should be repeated every three or four years, to eliminate any mixture that may have occurred. Notwithstanding the belief entertained by some persons that trees produced from buds and scions taken from bearing trees are less liable to mixture than those propagated from nursery rows, when produced in the manner recommended, because there is less likelihood of perpetuating fungus diseases and insect pests, than when taken in large quantities from bearing orchards old enough to show established peculiarities; and for the reason that they are better adapted for use on young nursery-grown stocks, and also because they can be so much more rapidly collected. It gives me pleasure to testify that nurserymen, as a class, are conscientious in their efforts to preserve the varieties they propagate true to name, and that their dealings with their customers are honorable in every way.

X. Y. Z.

THIRTEENTH ANNUAL MEETING INTERNATIONAL APPLE SHIPPERS' ASSOCIATION.

Although the attendance at the Atlantic City meeting (August 8–10) of this live association was somewhat smaller than usual, the convention was most satisfactory as regards interest and quality of matter presented.

President Wiley reviewed the business of the year in a well-arranged address, in the course of which he said:

"We may congratulate those whose good judgment prompted them to carry their holdings until late in the season, and those less wise who, unable to dispose of their stocks early, were thus forced to carry them until high prices prevailed, we may doubly congratulate; and all of us may rejoice in so successful an apple season, especially when we remember the large amount of apples reported on hand December 1st in the United States, Canada and Nova Scotia, and that, in spite of the high prices paid for the fruit, these were largely handled at a profit. Our good fortune was largely due to peculiarly favorable weather conditions prevailing during the last part of the season; but what probably saved the day for the holders of apples was the continued export demand, which took over two and a quarter millions of barrels.

The Ben Davis sold better this season, owing to the fact that through the Ben Davis belt the apples were graded closely and packed as a strictly number one article. A successful movement of the large crop was thus made possible, and the contention is fortified that careful grading is the highway to commercial profit in the apple industry. On the contrary, in some sections of Western New York and of Michigan, apples were very poorly graded. The alleged number ones in many instances were only a good number two; and the reputation of these apple sections suffered in consequence. There is this, however, to be said for Michigan: the crop itself was of undersized fruit, and the relative difference between first and seconds was, perhaps, maintained. But they should have upheld the commercial standard, rather than have imperilled their good name abroad; for the ancient proverb, "A good name is rather to be chosen than great riches," applies to all branches of everyday life; and a good name as an apple packer and apple shipper is a very profitable asset. This matter of the importance of carefully grading and packing our fruit has been so often pointed out that I will say only this additional word: All dealers in apples should seek to encourage the careful grader and honest packer by preferential treatment, both in prices paid and in personal attention."

INTERNATIONAL APPLE SHIPPERS.

THE APPLE SHIPPER AND THE GERMAN TARIFF.

BY CARL KIMBALL, NEW YORK.

Doubtless everyone present is well acquainted with the condition which a year ago threatened to curtail the consumption of American fruits and fruit products and injure materially the interests of all merchants therein engaged. Conditions brought about by Germany's new tariff laws placing a maximum rate of duty upon imports from all countries not making with Germany a commercial trade treaty. Temporarily, shipments of American products to German markets subject to their minimum tariff rates was made possible by a modus vivendi which would continue for the period of one year—to June 30, 1907. However, the great importance of the German market to us as an association and as individuals is not generally or thoroughly understood, nor is the rapid consumptive growth in Germany of green and dried fruits which has developed in recent years—from a total valuation of $700,000 in 1897 up to $3,000,000 in 1904, shown by the statistics of the Department of Agriculture. Greater though than the mere valuation of these exports is the importance of the German markets, for the reason that they furnish an outlet for our fruits and relieve our markets at times when an over-supply burdens them, and thus by taking large quantities of apples, particularly during the harvesting months of October and November, the maintenance of values in our own market is made possible.

These conditions and facts led to the appointment of your committee, whose duty it was to secure, if possible, a permanent application of Germany's minimum tariff rates on all fruits exported from the United States.

Your committee, upon receiving notification of appointment from President Wiley, moved first through him for the appointment of subcommittees in each of the fruit growing states wherever we have membership. Furthermore, your committee elicited the support and concerted action of all kindred organizations with whom we could get into communication—such as the horticultural and fruit growers associations, as well as the dried and evaporated fruit trade. These organizations were quick to act, many of them adopting resolutions very similar to those used as a basis for our own work.

Through Congress we hoped to effect such legislation as would permit of a permanent and satisfactory commercial treaty with Germany along lines harmonious to every interest, and a concerted demand was made upon the individuals of both bodies from their constituents everywhere, but being overtaxed with work during the last session—a short session—Congress failed to respond to the pressure brought to bear and adjourned without action, although the requirements of our own and allied interests were present at Washington in a thoroughness of manner not to be belittled or misunderstood, and the replies received to the thousands of letters that went out to the senators and representatives demonstrated most clearly to those lawmakers that the fruit interests of the United States possessed a strength and merit that could not be but duly recognized. Their replies showed this and showed how well our needs were understood and how promptly action would be taken whenever properly drafted bills come up for action.

Germany did not require much or demand much in exchange for the concessions she offered. That country met us more than half way, offering us the benefit of her minimum rate of duty, asking in return a little more liberal construction of our customs administration act. They have not asked for any remittance or reduction in our tariffs, and it is for this reason that your committee could push its work along without being handicapped by a feeling that some matters of politics might become manifest, nothing of this kind has hindered or annoyed us, our requirements of Congress being those of a business organization from a business standpoint.

This committee, however, felt and believed that the Administration would not permit the vast business organizations that were interested in the German trade to suffer financial loss by being practically thrown out of the German markets, and in this belief we were correct as was shown by the correspondence between your committee and the State Department at Washington during the spring. As a further proof of its friendliness to our work in hand, a commission of tariff experts was sent to Germany for the very purpose of making a study of international trade relations so far as the business of our country was concerned.

On June 30, 1907, the then existing modus vivendi expired, and had nothing been provided in its place, very little business in the way of exports could have been expected during the coming season, but your committee, making this report to you, can with pleasure advise that the markets of Germany are still preserved for the receipts of American apples at their minimum rate of duty, made possible by a commercial agreement signed at Washington, April 22, and Levico, May 2, by Elihu Root for the United States and Von Sternburg for Germany.

To the officers of this association who have aided and encouraged our efforts whenever possible, to the sub-committees who have ably and cheerfully supported our work in the respective states, and to all individual members, responding as they did to our requests, we convey our sincere thanks and appreciation.

OFFICERS ELECTED.

W. L. Wagner, of Chicago, was chosen as incoming president; George Olivit, New York, vice-president; E. N. Loomis, New York, treasurer; A. Warren Patch, Boston, secretary. The Executive Committee consists of C. P. Rothwell, East Palestine, O., chairman; D. S. Beckwith, Albion, N. Y.; Charles Williamson, Quincy, Ill.; R. J. Graham, Belleville, Ont., and C. H. Weaver, Chicago.

ESTIMATE OF APPLE CROP OF 1907.

"Report of the Executive Committee on the present condition of the apple crop in the United States, Canada and Nova Scotia, August 1, 1907, as compared with August 1, 1906:

"As usual and in accordance with the practice of our association for several years, we make the last year's crop in each state the basis of this year's estimate, increasing or diminishing the percentage as the crop is correspondingly lighter or heavier than one year ago.

"A general review of the appended report will show that the best crops in the United States extend from Ohio and Michigan eastward through New York and New England, including Canada and Nova Scotia, these several states and sections showing considerable excess over one year ago. The Ben Davis crop and the crop as far west as Colorado show a heavy decline from one year ago, which more than offsets the increase in the East, so that the present crop promises to be somewhat less than one year ago, but considerably in excess taken as a whole for the United States, Canada and Nova Scotia of the crop two years ago.

"THE EXECUTIVE COMMITTEE,
"By C. P. Rothwell, chairman; C. H. Williamson, D. S. Beckwith, C. H. Weaver."

The report of the crop by states as summarized from the reports handed in by the State Vice-presidents is as follows, it being remembered that in considering this report last year's showing in each of the various states is considered as the unit on which the percentage is based:

State	Per ct.	Quality
Maine.....	140	Good
Vermont.....	180	Good
Connecticut..	120	Good
New York....	110	Fair to good
New Jersey...	100	Fair to good
Ohio.	60	Poor to good
Wisconsin. ..	70	Good
Illinois.....	20	Fair to good
Kansas.....	10	Fair to good
Arkansas.....	150	Good
Nebraska	30	Fair to good
Virginia.....	150	Poor to good
Kentucky....	25	Poor
Colorado.....	35	Good
Utah	100	Good
California.....	50	Good
Washington ..	150	Good
Canada	125	Fair to good

State	Per ct.	Quality
N. Hampshire.	100	Good
Massachusetts	118	Good
Rhode Island.	100	Good
Pennsylvania.	125	Fair to good
Delaware	50	Fair to good
Michigan.....	75	Poor to good
Indiana	20	Fair to good
Missouri	15	Fair to good
In. T. & Okla.	100	Good
Iowa.....	30	Fair to good
W. Virginia..	175*	Poor to good
Maryland	200	Poor to good
Tennessee....	75	Poor
Idaho	150	Good
Montana.....	125	Good
Oregon	125	Good
Nova Scotia..	150	Fair to good

* Very poor to good.

MEETING OF TEXAS NURSERYMEN.

The Texas Nurserymen's Association met in Eighth Annual Convention, at College Station, on July 25, 1907, in joint session with the Texas State Horticultural Society. There was a fair attendance of membership and much interest and enjoyment prevailed, both as to the discussions and in a social and a business way. A good deal of business was transacted by different members, from all appearances, and many memberships were renewed, besides quite a number of new members secured.

The principal topic for discussion was in the joint session, when the committees on the revision of the Inspection Law made their report. It appears that the committees made and outlined the plan of the much-needed revision of the present law and presented the same to the Texas legislature for their enactment into law, but the legislature failed utterly to do anything with it.

The principal points of revision are summed up in brief about as follows:

The greenhouses and orchards are included under the law, instead of excluded. The fruits are also included in so far as they are infested with San José scale. Citrous fruits and citrous trees are also included under the requirements of the law, also park and shade trees, and all other plants which prove hosts of San José scale. Many weak points in the former law, wherein it was said to be inoperative, were changed, under the advice of proper authorities, to make the law operative. A very important change was proposed, in that the State should pay all the costs of inspections and eradications of diseases, instead of the owners of the premises where such inspection or eradication should take place.

The Hon. R. T. Milner, Commissioner of Agriculture, was present and took part in the discussion, and stated that he would have the law faithfully enforced. Also, the Chief Inspector, Sam H. Dixon, of Houston, Texas, outlined a vigorous inspection policy. Many of the assistant inspectors were also present.

The attitude of the orchardists and nurserymen, plainly, is that the law is a necessity, and that all will co-operate with the State authorities for its enforcement, that orchard pests may be suppressed. Self-preservation is certainly the best law, and will prompt all live, progressive men to suppress all diseases; yet the law and its executive corps are needed to look after careless growers.

RESOLUTIONS.

It was decided that copies of the proposed amendment should be printed, and the *Texas Farm and Ranch*, through its editor, J. H. Connell, proposed to do the printing for the sake of the horticulturists and nurserymen, for which offer he is thanked. That the Secretary should send these out to all members of the State Horticultural Society and Texas Nurserymen's Association, and also ask the press of the country to publish same. It was further decided that the committee should endeavor to report again any further changes or amendments that might be suggested at the winter meeting of the State Horticultural Society, which is to be held at Abilene, Texas, some time during the winter. All nurserymen are urged to comply fully with the law as we now have it.

All communications concerning the proposed revision of the inspection law should be addressed to John S. Kerr, Sherman, Texas, or to Sam H. Dixon, Houston, Texas who are chairmen of the two committees on revision.

OFFICERS.

The re-election of officers resulted as follows: E. W. Knox, San Antonio, Texas, President; F. T. Ramsey, Austin, Texas, Vice-President; John S. Kerr, Sherman, Texas, Secretary-Treasurer.

Cash on hand, $52.97, which does not include receipts for memberships during this convention.

It is probable that there will be a fall meeting of the Texas Nurserymen's Association called by the president, at a date and place yet to be fixed.

All nurserymen of Texas and the Southwest are urged to join the Texas Nurserymen's Association, and help to push forward the good work devolving upon this association, and share in the benefits of organized effort. Membership may be had by all nurserymen in good standing by sending the annual membership fee of $2.00, with their names, to John S. Kerr, Secretary-Treasurer, Sherman, Texas.

A fuller report, including the President's annual address and other important matter, will be published later, and distributed to the membership.

JOHN S. KERR,
Secretary-Treasurer.

Quiz Column.

SAN JOSÉ SCALE IN NURSERY STOCK.

EDITOR OF NATIONAL NURSERYMAN.

What preparation can effectively be used to keep the San José scale off nursery stock, that will not injure the nursery stock if applied during the growing season? Where could such a preparation, or the constituents, be secured? At what cost?

The scale was within eight miles of me a year ago and is likely to come the rest of the way this summer.

I find your paper a dignified, scholarly publication and a great help.

Westfield, Ind. J. L. D.

SUMMER SPRAY FOR SAN JOSÉ SCALE.

Our experience in attempting to control the San José scale during the growing season leads us to recommend the use of kerosene emulsion. Last summer one of our investigators had an extended experience in fighting this insect in one of the large nurseries of the country, and after carefully studying the principal recommended remedies, he found that a 20% mixture of kerosene was satisfactorily effective. The kerosene was emulsified with soap and then diluted so that when diluted there was 20% of kerosene in the final mixture.

This mixture should be applied with a good, strong force pump, and it is to be remembered that it is only effective in proportion as it is applied thoroughly. No insects that are not hit with the spray are affected. Every scale must be hit in order to be killed. Half measures will not pay. As a rule, two thorough applications will clean up nursery stock. In the case of young trees slightly infested there is no reason at all why they should not be treated and saved by using kerosene emulsion made and applied as above.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

TWENTY-THIRD ANNUAL CONVENTION AT PHILADELPHIA, PA., AUGUST 20-24, 1907.

President William J. Stewart spoke as follows with reference to horticultural education:

EDUCATING THE PUBLIC; THE SCHOOL GARDEN MOVEMENT.

Chief among the instrumentalities for the upbuilding of our industries is the education of the public to a fuller appreciation of our products. The majority of American homes fall short of the home ideal in their lack of any setting of living green. Consider the possibilities—the millions of house plants, the hundreds of thousands of porch and window boxes for both summer and winter, the innumerable little table ferneries, the tons of lawn and flower seeds, the cargoes of spring and summer bulbs, the garden implements, the vast quantities of evergreens and shrubbery and border and bedding plants for which a demand can be created, not to mention the conservatories and conservatory plants, or the small fruits and products of the kitchen garden which every home lover likes to indulge in, once the appetite of the people for such things has been thoroughly aroused. Large as the demand already is, numerous and prosperous as we know the craft to be, yet who can say that our country is not well able to furnish business sufficient for many times the present number of our commercial establishments and employment for good gardeners in far greater numbers than they can be supplied to-day? With these facts in view I know of nothing which promises so rich a return as the school garden movement. In addition to its services in the cause of good citizenship it must be obvious to all that activity on this line is also good business policy and assures the interest of the coming generation in parks and gardens, tree-lined highways, horticultural exhibitions and plants and flowers everywhere.

EDUCATING BY EXAMPLE.

Again, every florist's home should be a shining object lesson. Show neighbors and passers-by the possibilities with spring bulbs, with easily-grown plants in bed and border, in piazza box and window; excite their dormant perceptions with rose and clematis and honeysuckle-bowered porch and pillar; impress them with the dignifying effect of ornamental trees and shrubbery, the cheery picture of evergreens in winter time. See that they are wisely instructed in the selection, planting and care of material and that they realize that the time is probably not far distant when bare yards and flowerless windows will pass as an evidence of ignorance and squalor within. The public are in a mood to welcome such activity on the part of the florist, the newspapers are at all times disposed to assist, and the more the florist does in this direction the higher position he will occupy in the esteem of his townsmen.

TWO IMPORTANT DUTIES OF THE SOCIETY.

The time seems now ripe for us to insist that horticulture be made a regular course in our public school system. There can be no question of the wisdom of this society's taking an advanced position on this matter and fostering liberally all movements for the dissemination of garden knowledge through this means. Every argument on physical, mental and moral grounds is on our side.

As a society, we should lend aid and encouragement to any investigation or experimentation for the purpose of stimulating the production of any horticultural material for which we have hitherto been obliged to depend upon foreign sources of supply. "Made in America" is an inscription too seldom seen on horticultural goods. How can this organization best assist to that end? In the case of those goods which we must import, there is room for a better system and improved facilities in the appraisers' department, and I hope our legislative committee will give this question the attention it should have.

A REMINDER.

"Lives of great men remind us,
That we will, if we are wise,
Leave our modesty behind us,
And get out and advertise."

Our Book Table.

"Entomology with Special Reference to its Biological and Economic Aspects." J. W. Folsom, S. C. D. Published by P. Blakistons, Son & Co., Philadelphia. 9″ x 6″. Price, $3.00. 485 pages. Colored frontispiece and many half-tone engravings.

This book is designed to emphasize the biological or functional characteristics of classes and species of insects. It is not classificatory, as most of the manuals on entomology are; but it treats of the characteristics of some of the commoner kinds, in order "that the reader may easily use the text as a guide to personal observation." It gives an account of insects from the biological standpoint. Some of the interesting chapters are as follows: Adaptations of Aquatic Insects; Color and Coloration; Insects in Relation to Plants; Insects in Relation to Other Animals; Inter-relations of Insects; Insects in Relation to Man. The whole subject is treated from an unusually interesting phase. The illustrations are clear and the text well presented. The volume has as an appendix a very full bibliography of the principal works on entomology. The volume can be commended with great heartiness to all persons having a direct interest in this great field.

VISIT OF ENGLISH SEEDSMEN AND NURSERYMEN AT DARMSTADT, GERMANY.

On their annual continental tour, about twenty-five members of the British Horticultural Trades' Association visited Darmstadt, the well-known centre of forest tree and grass seeds, on July 25th, under the management of Mr. J. S. Brunton, editor of the *English Horticultural Trade Journal.*

Arriving at 11 A. M., the Englishmen inspected the seed establishment of Conrad Appel, under the guidance of the head of that firm, Councillor of Commerce Mr. L. Heyn, and paid special attention to the desiccating establishments for production of evergreen tree seeds, to the seed cleaning and dressing department and to the well-fitted seed testing laboratory of Conrad Appel.

The gentlemen then followed the invitation to lunch in the hospitable house of Mr. Heyn, and in the afternoon made a drive round the town by carriages, decorated with flowers, which had been arranged by Mr. Heyn and the garden-architect, Mr. Henkel; at least they visited the nurseries of Mr. Henkel and the seed establishment of Messrs. A. Le Cog & Co., and started for Francfort-on-the-Main at 6.30 P. M. to visit on the following day its famous Palm-garden.

WISCONSIN STATE HORTICULTURAL SOCIETY.

SHIOCTON, AUGUST 28, 1907.

The following program was carried out:

Bulbs, Corms and Tubers—A Botanical Review, ... E. G. Artzberger, Madison
The Dahlia, ... A. P. Loewe, Milwaukee
The Gladiolus, ... M. Crawford, Shiocton
The Lily Family, . . Representative from Lake Geneva Society
Dutch Bulbs, ... A. Henderson, Chicago
Forcing Bulbs and Bulbs Adapted to House Culture, ... Eben Rexford, Shiocton
Native Bulbs and Tubers, . . Prof. R. H. Denniston, Madison
The Economic Relation of Birds to Horticulture, ... Prof. J. C. Elsom, Madison
"Bills," . . . . . W. S. Hager
"Society Notes," . . . . . Secretary

Thursday was devoted to viewing the bulb farm and the field work of the Shiocton Garden Land Co., by invitation of Mr. F. A. Bridge, President of the S. G. L. Co., and Mr. Crawford.

C. R. Burr & Co., of Manchester, Conn., one of the leading nurserymen of that state have added seventy-five more acres to their nurseries at Dunham, Conn.

The NATIONAL NURSERYMAN wishes Mr. Burr abundance of success in this undertaking.

ABSTRACT OF ADDRESS ON IMPORTANT NURSERY REGIONS OF THE UNITED STATES.

DELIVERED BY JOHN CRAIG, BEFORE NURSERYMEN'S ASSOCIATION, DETROIT.

The following is a brief abstract of the illustrated address presented by Mr. Craig on this topic. The speaker said that it was his privilege to have visited most of the nursery centers of the United States and to have enjoyed the proverbial hospitality of many nurserymen. This privilege was as much associated with the work of a trade paper editor as it was with the duties and pleasures of a horticultural teacher. It was equally important for the teacher and editor to keep close to the basic horticultural industry of the country if they would properly serve their patrons. The speaker wished it understood that the illustrations presented and the remarks offered in no way purported to be a complete survey of the important features in this great industry in the United States. In the majority of cases the photographs were made on the ground by the speaker. In other instances they were specially prepared for the occasion. In a few cases the diffident and retiring character of the nurserymen prevented the speaker from securing illustrative material. This he regretted very much.

AREA DEVOTED TO NURSERY AND PLANT GROWING IN UNITED STATES.

In his introductory remarks the speaker drew attention to the fact that nothing more recent than the figures in the twelfth census published in 1899 on the area of nursery stock in the United States were available. From these figures we gleaned that there are 6,159 flower and plant farms in the United States; that these plant farms aggregate 42,666 acres; that the value of the products of these farms in 1899 reached the sum of $18,505,881.

Of nursery farms there were 2,029. These comprised 165,780 acres, and they turned off products in 1899 to the value of $10,279,135. This would give a total annual output for the flower plant and nursery farms of $28,785,016. If we were to consider in connection with this the capital invested, we would appreciate what an important industry this represents in the United States.

AREA IN NEW YORK.

It would be invidious to single out any sections, regions, or states and hold them up as leading others in any special respect. In order to characterize the business a little more specifically, it may be worth while, however, to examine the industry as it is set forth by the report of the nursery inspection agent Mr. G. A. Atwood, of New York State. This report gives the following data in regard to the acreage in nursery and the number of fruit trees and fruit bearing plants as well as ornamental shrubs grown therein, for 1906.

Number certificates issued, - -	444
Number certificates not issued, - -	6
Number acres in nursery, - - -	9,341
Estimated number apple trees, - -	9,712,997
" " pear " - -	5,368,925
" " dwarf pear trees, -	1,136,100
" " plum trees, - -	9,003,455
" " cherry " - -	8,326,815
" " peach " - -	4,863,675
" " quince " - -	629,357
" " apricot " - -	37,400
Total number fruit trees, - - -	39,083,624
Estimated number ornamental trees, -	9,246,200
" " shrubs, - -	9,839,375
" " currants, - -	5,258,910
" " grape vines, - -	24,577,721
" " gooseberries, -	1,257,375

Number acres in raspberries, 164; blackberries, 95; strawberries, 80; vineyards, 1652 acres.

ILLUSTRATIONS USED.

Beginning at the Atlantic coast, the lecturer carried his hearers across the continent, stopping at characteristic and typical nurseries on the way west. The following is a summary of the illustrations thrown upon the screen: Old French apple tree, Annapolis valley, Nova Scotia, this tree planted by the Acadians, two hundred or more years old; apple tree in Downing orchard, Newburgh, used for testing new varieties; draining nursery land, C. H. Stuart Co., Newark, N. Y., one year old apple stock, tree digger; two year old budded trees, Jackson & Perkins Co., Newark, N. Y.; office scenes, Stuart & Co., Newark, N. Y.; landscape, Dansville, N. Y.; two year plums, Stark Brothers Co., Dansville, N. Y., quince stocks budded, Stark Brothers, Dansville, N. Y.; budding roses, W. T. Smith & Co., Geneva, N. Y.; cultivating grape vines, Stark Brothers Nursery, Portland, N. Y.; vineyard scenes, Chautauqua region; Ephraim Bull (originator Concord grape) in his garden, Concord, Mass. In Rochester: propagating houses, Ellwanger & Barry, propagating pits, lawn scenes, Ellwanger & Barry; peach stocks, Morris & Wellington, lawn scene, same firm, Welland, Ont.; home grounds and office, Elizabeth Nursery Co., propagating pits, same firm, Elizabeth, N. J.; historic walnut, propagating conifers, frames showing winter protection, Moon & Co., Morrisville, Pa.; block Norway maple, seed beds of ornamental stock, Thomas Meehan & Son, Dreshertown, Pa.; types of cultivators used by H. M. Simpson & Sons, Vincennes, Ind., samples of cherry stock, same firm; J. G. Harrison & Sons, Berlin, Md., were illustrated by views in strawberry field, cultivating nursery stock, cover crops, budding peach stock, and inspecting nursery stock.

A number of views of southern nurseries were shown, the home plant of Pomona Nurseries, scenes in conservatory, and propagating mulberries; the Huntsville region: Views of the Huntsville wholesale nurseries including the planting of fruit stocks, horse cultivation, and the heading back of pears; from the Alabama Nursery Co. an interesting series was shown illustrating the fitting of land, the planting of the stocks, and the subsequent cultivation; Fruitland Nurseries, Augusta, Ga., illustrations of sample hedges, the noted Magnolia Avenue, and views of the home grounds; in North Florida the Glen Saint Mary Nurseries were drawn upon for illustrations of citrous blocks both in nursery and orchard, and special phases of citrous culture; Smith Brothers, Concord, Ga., were illustrated by fumigation houses and cut-back stock.

PECAN CULTURE.

An excursion was made into the pecan region about DeWitt, Ga., and Monticello, Fla., from which illustrations were drawn showing the extent of the pecan industry, methods of propagating nursery stock, and the feasibility of top-working old seedling trees. The illustrations were secured in the G. M. Bacon Pecan Nurseries, DeWitt, Ga., the Nut Nursery, Monticello, Fla., and the Griffing Brothers Nursery, MacClenny, Fla.; in the extreme south illustrations of propagating mango by inarching were shown in the Reasoner Brothers Nursery, of Oneco, Fla. The speaker humorously referred to the smallest nursery on record, one in which he himself is interested, as existing on Elliott's Key, Fla. In this nursery of a few square feet, lime trees were grown in considerable quantity.

Returning to the Middle States, the audience was taken through the nurseries of Storrs & Harrison, Painesville, O., where storage houses, field scenes, and shipping activities were illustrated; Mount Arbor Nurseries, Shenandoah, Ia., provided blocks of nursery stock. In Michigan characteristic views of peach orchards at South Haven and Benton Harbor, and old pear trees along the Detroit river were prominent features; the growing of forest tree seedlings, coniferous and deciduous were illustrated by views of the Douglass Nurseries of Waukegan and those of D. Hill & Son, Dundee, Ill.

Special stress was laid upon the growing of type specimens of ornamentals. Illustrations of this endeavor were drawn from the Peterson Nurseries, Chicago, the Andorra Nurseries, Philadelphia, and the W. & T. Smith Nurseries, Geneva, N. Y. Views of the Stark Brothers Nurseries at Fayetteville, Ark., showing special types of cultivators, tree digging operations and storage houses were shown. Messrs. Marshall Brothers, Arlington, Neb., and Youngers & Co., Geneva, Neb., contributed fine views of forest tree seedlings, ornamental shrubbery, fruit stock, and tree digging operations. At this point the speaker interjected a number of views in the way of souvenirs of the interesting visit of the convention of the association to Texas last year. These pictures brought back pleasant recollections of a

most interesting visit. T. V. Munson was shown in his hybrid grape vineyard.

On the matter of spray machinery, several makes were shown as typical of those used by leading nurserymen. Spraying is coming to be an established practice. From the far west illustrations of orchards in British Columbia, the breaking of ground, nursery stock, both of ornamental and fruit types, were shown on the plant of the Oregon Nursery Co. The lecture closed with illustrations drawn from the grounds of the eminent plant breeder, Luther Burbank.

In closing, the speaker stated that the dominant features of the nursery business in the United States are :

1. The rise of great wholesale centers where the production of standard varieties is prosecuted in a vigorous and extensive manner.

2. The rapidly increasing interest in the propagation of ornamentals. This feature is of comparatively recent development, for a few years ago ornamental stock as well as shade trees were largely imported.

3. The replacing of the forest tree seedling nurseries in the central West to a considerable extent by fruit stock producing nurseries, together with the production of staple shade and ornamental trees.

4. The gradual trend of the business of tree growing towards co-operation coupled with the fuller co-ordination of allied trade interests.

5. The important part which the nurserymen of the country are taking in the promotion of home and civic improvement and the betterment of urban and rural æsthetics in general.

The place of the nurseryman in the citizenship of the world is one of commanding importance. His influence exercised through the æsthetic and utilitarian factors in their refining and economic aspects should be potent and enduring. May he realize his responsibilities and live up to his opportunities.

Business Movements.

Mr. W. Van Kleef, Jr., representing W. Van Kleef & Sons, wholesale growers of nursery stock, Boskoop, Holland, visited western New York nurserymen early in April. During a pleasant call made at the NURSERYMAN business office, he stated that the condition of nursery affairs in Holland at the present time was quite satisfactory, and that the outlook was promising.

ALBAUGH NURSERY COMPANY.

We regret to learn that business difficulties have resulted in the appointment by Judge Brown of the Common Pleas Court of a receiver for the Albaugh Nursery and Orchard Company. The appointment of a receiver was made on the application of the Fourth National Bank of Dayton, Ohio. The liabilities of the company are quoted at $40,000. An order has been issued for the sale of the assets and the liquidation of the liabilities.

PROF. McKAY TO ENGAGE IN THE NURSERY BUSINESS.

Professor A. B. McKay, for many years professor of horticulture in the Mississippi Agricultural and Mechanical College, is to engage in the nursery business with his brother, J. F. McKay, and one R. L. Addkinson. The business will be of two parts, floral and regular nursery work. The firm will be incorporated under the laws of the state, and will be located at Madison Station, Miss.

Mr. J. S. Kerr of Sherman, Texas, recently discussed diseases and insects affecting the peach, at the annual peach show in Denison. The attendance was large, and there were many fine exhibits of fruit. Prof. T. V. Munson, the noted grape hybridist, also spoke on peach growing.

"Mr. H. Frank Darrow sailed for New York on August 15th, per S. S. "Deutschland" from Hamburg, after visiting the various foreign firms for which he is the American Agent."

Obituary.

JOHN C. TEAS.

John C. Teas, who passed quietly away on the 29th of July at his home near Carthage, Mo., was well known among the veteran nurserymen of the country, especially those of a generation now almost past.

He was the originator of the Weeping Mulberry which bears his name, and in his earlier years he was intimately associated with Charles Downing, John J. Thomas, Dr. John A. Warder, Andrew S. Fuller, and many other prominent workers for the advancement of horticulture, and in many of their words his name is given as having assisted in their preparation.

He was born in Indiana in 1827 and began his life work in childhood, his first achievement being a bed of Sanguinaria Canadensis and a field of White Clover. His early school days were spent in a log schoolhouse in the "big woods" of the Hoosier State; and his first trees were small seedlings collected in an orchard through which he passed on returning from school, and carried home in his dinner pail. The lack of advantages in those early days was not the only obstacle to be overcome by a young man whose ambition was horticulture. The wise ones were free to give the advice that when the trees already planted should come into bearing, the fruit could not be consumed or sold—and of course people would not buy and plant more trees. And as the best apples could hardly be sold at 10 cents a bushel, and trees of the best sorts were 3 to 5 cents, the outlook was not encouraging. Nothing daunted by opposition and discouragement, the boy went on with his chosen work. In 1850 he went to Rochester, N. Y. and worked for Ellwanger & Barry to learn more of the business. He had to go 100 miles to the nearest railroad station, on foot and the old stage coach, then a ride on the cars, and across Lake Erie on a steamboat.

He conducted an extensive nursery in Indiana until 1869 when he moved to Carthage, Mo., where he continued the business up to the time of his last illness. He brought from Indiana a very extensive collection of the choicest varieties of both fruits and ornamentals, which have since been largely distributed into every state and territory in the Union as well as to foreign lands.

Until about 1878 there was utter confusion and uncertainty among tree men in regard to the different kinds of Catalpa trees. With the assistance of the late E. E. Barney, Mr. Teas carefully examined these trees over a large area of territory where they grow, devoting several years and travelling many thousands of miles. In this way he discovered and made known the native habitat of the "Hardy Western" catalpa which was named "Speciosa" by Dr. Warder, and Mr. Teas was first to publish that name and send out trees. He also originated and disseminated the well known Teas' Japan Hybrid Catalpa, noted for its rapid growth and large panicles of flowers.

He was one of the founders and charter members of the Indiana State Horticultural Society, and was made an honorary member when he left the state.

To his skill, energy and life long devotion to horticulture are due many important additions in trees, fruits and flowers, most notable among which are the weeping mulberry, Japan Hybrid catalpa, and his last introduction Teas' White flowering Red bud or Judas tree (Cercis Canadensis alba) which he regarded as one of the most important additions in recent years to the list of hardy ornamental trees, and of which he had propagated a large stock.

The deceased leaves a widow and two daughters at the old homestead, two sons W. C. Teas of Chattanooga, Tenn., and Edward Teas of Joplin, Mo., two brothers, E. Y. Teas of Centreville, Ind., and T. S. Teas of Salem, O.

BUSINESS AND PERSONAL MENTION.

EDITOR NATIONAL NURSERYMAN :

Having been elected to the office of Clerk of the District Court for Dallas County, I will not devote much time to the nursery trade for the next few years. My time will be given over to the Contemplation of Lis Pendens Dedemus Potestatum, Etcetera.

Adel, Iowa. M. J. GRAHAM,

Wanted, Position by a practical nurseryman who has long experience as Manager of Nurseries. Capable of managing agents or the field. Good character. Can furnish the best of reference. Prefer to engage with a fruit tree Nursery rather than ornamental exclusively. Address,

Manager, Care NATIONAL NURSERYMAN, Rochester, N. Y.

Wild Bros. Nursery Co.

Successors to James B. Wild & Bros.

Sarcoxie, Mo.

Established 1875. Thirty-third Year.

Scions and Buds:

APPLES, PEARS, PLUM and PEACH.

Write for Prices.

Specialties for Fall 1907.

APPLE.

ARBOR VITAE, Pyramidal, Siberian, Woodward American, Douglas Golden, Hovey's.

Irish Juniper, Hydrangea P. G. Snowball, Spirea, Althea, Weigelia.

European White Birch, Tulip Tree, Elm, Poplar, Ash.

PEONIES, Ornamental Grasses, Vines.

THE CURETON NURSERIES,

AUSTELL, GA.

OFFER FOR FALL SHIPMENT

3 year Pecan, 1 and 2 year English and Black Walnuts. A full line of Peach, Pear, Plum, Cherry, Mulberry, Figs, 2 year Grapes, Small Fruits, Roses, Shade and Ornamental Trees and Shrubs, Peach Seed, Privet and Poplar Cutting. A Specialty, Martin's Sept. Peach. Everything clean and healthy. Satisfaction guaranteed.

JAMES CURETON, Prop.

CAROLINA POPLAR, 1yr. PEACH,

2yr. APPLE, 5/8 and 3/4 Trees

are offered cheap if order is booked during September. If interested, write

GILES COUNTY NURSERY COMPANY,

R. O. LAMAR, Manager. Pulaski, Tenn.

FOREMAN WANTED

For an incorporated retail nursery. Must be familiar with growing and able to produce good results in sales department. Give reference and state salary expected.

THE LORIMOR NURSERIES,

Lorimor, Union Co., Iowa.

Specialties

CHAMPION QUINCE, First Class.

PEARS, PLUMS and CHERRIES, ½ inch.

WEEPING MULBERRY, 2 yr. heads.

SUGAR MAPLES, 2-2½ and 2½-3 inch.

ENGLISH WALNUTS, 2-3 ft.

HALLS JAPAN HONEYSUCKLE.

RED BRANCHED DOGWOOD, 4 to 5 ft.

DEUTZIAS, 5 to 6 ft. and 6 to 7 ft.

COMMON PURPLE and COMMON WHITE LILACS.

RED SNOWBERRY, 3-4 ft.

COMMON SNOWBALL, 3-4 ft.

THE MORRIS NURSERY CO.

WESTCHESTER, PA.

CONRAD APPEL, Darmstadt, Germany.

ESTABLISHED 1789.

Forest and Agricultural Seed Establishments.

Extensive Desiccating Establishments for Forest Tree Seeds.

SPECIALTIES: High Grade EVERGREEN AND DECIDUOUS TREE SEEDS such as Scotch Fir, Spruce, Weymouth Pine, Black Locust, Honey Locust, Larch, Austrian Beech Pine, Norway Maple, Hornbeam Elm, FRUIT TREE SEEDS.

Natural Grass, Clover and Agricultural Seeds, Grass Seed Mixtures.

Last Award World's Fair, Milan, 1906, Grand Prize.

GREENWOOD NURSERIES

S. Billingsly, Prop.

GREENWOOD, IND.

Offers Norway Maple, Soft Maple, Box Elder and Am. Linden, also Hydrangea P. G., at reasonable prices.

WANTED.

Nurseryman experienced in field work and office. References required.

VINELAND NURSERIES CO.

CLARKESTON, WASH.

THE SIMPLEX TREE BALER

is gaining favor with the nurserymen everywhere. Why? Because it does the work.

PRICE,

$16.00.

L. F. Dintelmann,

BELLEVILLE, ILL.

Box 272.

GOOD STOCK

of Magnolias in the following varieties: SOULANGEANA, HALLEANA, CONSPICUA and LENNEII, also MAGNOLIA ACUMINATA seedling, one and two year.

Heavy on Cut leaf Weeping Birch in the different sizes from 4 to 12 feet.

MARK WELCH, Painesville, Ohio.

SITUATION WANTED **as Foreman.** Twenty years experience — North, East, South, West. Ten years management. Good references. Address "East," care Nat'l Nur. Pub. Co., Rochester, N. Y.

SURPLUS LIST OF TECUMSEH NURSERIES.

In order to clean up the land, we will quote a close price on he following stock for fall:

2500 Catalpa Speciosa, 5 to 15 ft., fine stock.
800 Silver Maple, 6 to 8 ft.
50 Pin Oaks, 6 to 8 ft.
50 Laurel-Leaved Willows, 6 to 8 ft.
50 Gold Bark Willows, 6 to 8 ft.
25 Liquid Amber, 8 ft.
100 Scotch Elms, 6 to 7 ft.
500 Car. Poplars, 2 yr., 6 to 8 ft.
1500 Norway Spruce, 18 inch to 4 ft.
300 Am. Arbor Vitæ, 15 to 18 inch.
50 White Spruce, 2 to 2½ ft.
300 Cal. Privet, 3 to 4 ft., fine.
50 Viburnum Opulous, 4 to 5 ft.
25 Purple Fringe, 5 to 6 ft.
40 Purple Leaved Barberry, 4 ft.
20 Eng. Elms, 2½ inch, Cal. 10 to 12 ft.
15 Purple Leaved Beech, 8 to 10 ft., heavy, stocky trees.

This Stock is all Clean and Well Grown.

ADDRESS:

TECUMSEH NURSERIES,

CEDARVILLE, OHIO.

Every Nurseryman Should Have This Work of Reference.

Cyclopedia of American Horticulture.

By L. H. BAILEY.

Professor of Horticulture in Cornell University, Assisted by WILHELM MILLER, Ph. D., Associate Editor, and Many Expert Cultivators and Botanists.

Here is a brief synopsis. It does not adequately describe the value of the work, but read it slowly, giving the subject thought and you cannot fail to be impressed with the magnitude of its scope and the worth of its fund of information to you in your business.

The work comprises Suggestions for Cultivation of Horticultural Plants, Common and Botanical Names, Descriptions of the Species of Fruits, Vegetables, Flowers, and Ornamental Plants sold in the United States and Canada, together with Geographical and Biographical Sketches.

As a valuable work of reference, this set should be in every plant grower's library. We unhesitatingly recommend it to all nurserymen

IN FOUR QUARTO VOLUMES.

Cloth, $20.00. Half Morocco, $32.00.

Illustrated with twenty-eight hundred original engravings and fifty full-page plates.

WRITE FOR DESCRIPTIVE PROSPECTUS.

The National Nurseryman Pub. Co., Inc.,
205 Cox Bldg., ROCHESTER, N. Y.

The Set of Bailey's Cyclopedia in our office is referred to more than any other book in our library.

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1907, A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

W. FROMOW & SONS, Windlesham, England.

We have a great assortment (250 acres) of first-class general HARDY NURSERY STOCK, including a fine line of RHODODENDRON, Coniferous Evergreens, HYBRID and other ROSES; Manetti Rose stocks for budding or grafting, and the finest stock in existence of the true GOLDEN PRIVET. Also an immense stock of young stuff, well rooted, for Nurserymen's own planting. Let us appraise your wants for **Fall 1907**, or next spring delivery. Address our **American Agents**, also for latest trade list,

AUGUST RÖLKER & SONS, P. O. Box 752 or 31 Barclay Street, NEW YORK.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1907

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

THE FRASER NURSERY,

JOHN FRASER Proprietor,
HUNTSVILLE, ALA.

Our stock for Fall 1907 and Spring 1908 includes choice blocks of Cherry, Standard Pear, Quince and June Budded Peach in large grades. We will also have a good supply of assorted Roses and Magnolia Grandiflora. Will be pleased to quote prices now on any of these items. We invite correspondence, for special budding, from buyers of Peach and Plum.

BOX STRAPS

Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

EASTERLY NURSERY CO.,

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Offers for Fall Shipment:

One, Two and Three-year Apple, Two-year Kieffer Pear, Two-year Sour Cherry, One-year Peach, in car-load lots. A good assortment of Japan Plums, one year and Mariana Stocks. Ask for prices.

FOR SALE OR EXCHANGE

Silver Maples and Carolina Poplars, 8 to 10 ft.

Choice stock and sure to give satisfaction. Price very low. F. O. B.

R. R. HARRIS, Harrisville, W. Va.

WANTED

Young man familiar with Ornamental Nursery stock and competent to oversee shipping department. Permanent position to right party.

THE ELM CITY NURSERY CO., New Haven, Conn.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

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Sole Representatives for the United States.

E. T. DICKINSON,

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

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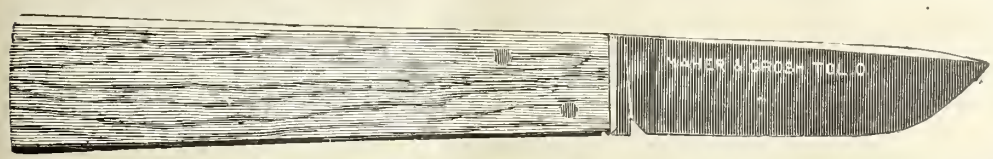
Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.



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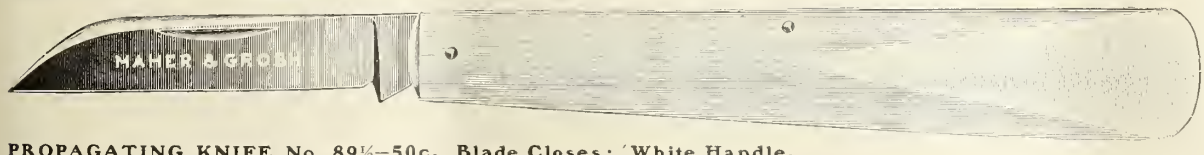

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Hand forged Razor Steel Warranted

Nursery Pruner, 50cts.
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We Solicit Direct Trade

Send for 12-Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, Ohio.

Viburnum Plicatum

We have a large stock of this valuable shrub in all sizes.

Pin and Red Oaks

Of all sizes from four to sixteen feet.

We offer one of the largest collections of Ornamental Stock in the country.

Japan Plums

All varieties, largely of Abundance and Burbank.

SEND US YOUR LIST OF WANTS.

HOOPES, BRO. & THOMAS COMPANY,

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The Best Tree Digger on Earth

Write for Descriptive Circular
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GREEN RIVER NURSERIES.

WANTED: to sell a partnership. Cannot attend to all the business. Have a splendid trade over all this section of the state, and adjoining states.

Write for terms and Catalogue of stock.

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Exporter of European Forest Trees, Shrubs and Fruit Trees, Seeds.

Specialties: Black and Honey Locust, Mulberry, Myrobolans.

Sole Agents for the United States and Canada,
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A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, etc. Forest Trees, Ornamentals, Evergreen Seedlings, Roses, etc. The largest stock in the country. Prices very low. The very best grading and packing. Send for quotations before placing your orders elsewhere. Catalogue free.

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"ESTABLISHED 1859."

PEACH SEED

If you want Peach Seed write us. We have few crop, 1906, and hope to have some crop, 1907 later.

P. O. Box 451.
C. and P. 'Phone, St. Paul 4382.

W. W. WITTMAN & CO.,
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ABOUT 30,000 PEACH LEFT

Clear of disease and insect. Would like to close these out at Wholesale. Entomologist's Certificate accompanying all shipments.

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CHOICE HIGH GRADE

CHERRIES

JAPAN PLUMS

IN ALL GRADES

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REPRESENTING IN
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VINCENT LEBRETON,

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GROWER AND EXPORTER OF

FRUIT and ORNAMENTAL SEEDLINGS

SUCH AS

Pears, Apples, Mahalebs, Mazzards, Myrobolans, Angers Quince, Manetti, Etc., Also a Full Line of Ornamental Stocks. Own Cultures Exceed 20,000,000 Stocks.

Write for special prices, lists, catalog, etc.

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WHOLESALE GROWERS OF

H. P. and TREE ROSES, RHODODENDRONS, HARDY AZALEAS, BOXWOOD, PÆONIES, CONIFERS, Etc. Also a full line of Boskoop grown stock.

Write for special prices, lists, catalog, etc.

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(H. W. VAN DER BOM, Director.)

SYNDICATE OF PRINCIPAL GROWERS

OF

NORWAY and SCHWEDLER MAPLES, HORSE CHESTNUTS, RIVERS PURPLE BEECH, THORNS, LIMES, ELMS, PLANES, Etc. Also Full Line of Evergreens. Large Quantities. Lowest Prices.

Write for special price lists, catalog, etc.

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ENGLISH MANETTI, RHODODENDRONS, Etc. JAPANESE NURSERY STOCK, MAPLES, SCIADOPITYS, TREE PÆONIES, THOYA, JAP. BULBS, Etc.

RAFFIA, Red Star Brand.

THE NURSERYMAN'S GRADE.
LONG, STRONG WHITE STRANDS IN BRAIDED HANKS.
Stock always on hand. Samples sent free.
BALE LOTS ONLY.

SHIPPING. We have our own Custom House Department. Special facilities at Havre, Antwerp, Rotterdam, Southampton, Hamburg, etc. Lowest rates consistent with perishable nature of stock.

McHUTCHISON & CO.
17 Murray St., NEW YORK

Dreer's Herbaceous Pæonies.

We are now booking orders for delivery during the latter part of September and early October for the following select list of Double Pæonies of which we have an exceptionally large stock of our own growing **strictly true to name**, all in strong divisions with from 3 to 5 eyes each.

NOTE—Special list of interesting prices will be mailed on application.

Agnes Marie Kelway. Rosy white guard petals with creamy white centre.
Achille. A beautiful soft mauve rose changing to almost pure white.
Alba Plena. A useful white cut-flower variety.
Andre Lauries. A fine tyrian rose, late.
Artemise. Outer petals bright lilac rose, centre white with silvery-rose markings, a fine large flower.
Canary. Guard petals white, centre yellowish changing to pure white.
Chrysanthemiflora Rosea. A fine large deep rose pink with paler shadings in the centre, a fine cut flower.
Duc de Cazes. Guard petals tyrian rose, centre soft rose-pink a beautiful formed flower useful for all purposes.
Duchess de Nemours. An extra fine large pure white.
De Jussieu. Pale lilac rose with creamy white rosette shaped centre.
Edulis Superba. Soft mauve with lighter shadings.
Festiva Alba. Popular white for cutting.
Festiva Maxima. Pure white, centre petals occasionally tipped red, this is the very large white variety the most popular for cut flowers.
Humei. Rose pink.
Lady Bramwell. A beautiful silvery rose of large size and fine form.
Lamartine. Solferino red shading lighter to the centre.
Louis Van Houtte. Brilliant crimson maroon of good size and very free flowering.
Mme. Callot. White, tinted with rose when first opening changing to creamy white, a fine large flower.
Marie Lemoine. An extra free flowering large late ivory white.
Ne-plus-ultra. Violet rose guard petals, centre mauve rose with lighter edges.
Paganini. Light solferino red with lighter centre, a medium sized but well formed flower and very free.
Pomponia. Rosy mauve guard petals, primrose yellow centre changing to creamy white.
Queen Victoria. A good early white.
Rosea Elegans. Guard petals silvery rose, centre creamy white suffused with rose: a fine large flower.
Rubra Triumphans. Rich carmine purple with prominent yellow stamens.
Victoire Tricolore. Guard petals delicate lilac rose, centre light salmon yellow.
Whitleyi. A fine early white.

HENRY A. DREER, Inc.,
714 Chestnut Street, Philadelphia, Pa.

THE L. GREEN & SON CO.

PERRY, LAKE CO., OHIO.

Offers for Fall '07 and Spring '08, one of the most complete assortments in the country.

HEAVY on Std. and Dwf. Pear, European, Japan and Native Plum, Peach, Ornamental Trees and a fine lot of Poplars, including 1 yr. whips. Lots of shrubs, vines, roses, evergreens, herbaceous and perennial plants. Also a nice lot of 1 yr. grapes that promise to be good stuff.

Correspondence solicited and inspection invited.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

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Address, W. F. HEIKES, Manager,
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Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

Picea Pungens Glauca Kosteri

THE TRUE BLUE SPRUCE.

We have a fine collection of well-formed specimens, all grafted plants, from 12 inches to 6 feet high.

Also handsome specimens of

WEEPING BLUE SPRUCE.

Choice EVERGREENS, in the finest varieties; JAPANESE MAPLES; HARDY HERBACEOUS PLANTS, including Japanese and German IRIS, PHLOX, LARKSPUR, Etc.; DUTCH BULBS, such as HYACINTHS, CROCUS, TULIPS, DAFFODILS, Etc.; BAY TREES, and BOXWOOD in all sizes, also other decorative plants, PALMS, DRACENAS ARAUCARIAS, ETC.

Prices and sizes upon application.

Ask for Catalogue.
We are always pleased to receive visitors.

BOBBINK & ATKINS,
Nurserymen and Florists,
RUTHERFORD, N. J.

ESTABLISHED 1780.

Andre Leroy Nurseries

BRAULT & SON, Directors,

ANGERS, FRANCE,

are now booking orders for

SEASON, 1907-1908.

FOR NURSERY STOCKS OF THEIR OWN GROWING, GRADING AND PACKING.

For Quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

TWO HUNDRED ACRES FIELD GROWN ROSES

Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

RICH, MISS.

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I have control of several thousand acres of Mountain land covered with Rhododendrons and am in a position to get these out on reasonable terms. Address, . . .

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LOMBARDY POPLARS.
9, 10 and 12 ft. Young Trees; branched low.

CAROLINA POPLARS.
1 in. and 2 in.

CALIFORNIA PRIVET.
Fine. 15 inches to 5 feet. 1 and 2 yrs.

PEACH TREES.

HEMLOCK, SPRUCE.
5 to 7 feet.

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4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

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While we grow Cherry in larger quantities than any other Stock, we also have a very complete line of the following:

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Eight nursery spades, Albertson & Hobbs make; perfectly sound; One-half cost price. Also one tying machine, one half-price.

All tools are a bargain; for further particulars write

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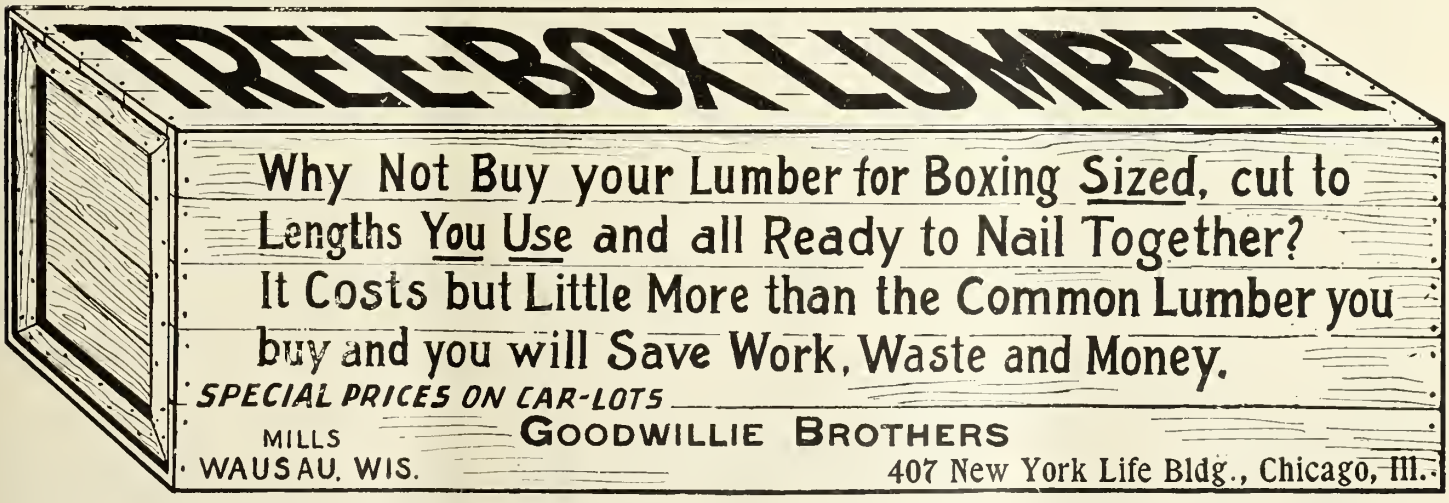
OFFERS A FINE STOCK OF TWO YEAR OLD APPLES, ALSO A FINE BLOCK OF ONE YEAR APPLE BUDS OF GOOD VARIETIES, YEAR OLD PEACH, JUNE BUD PEACH AND NICE LINE OF GRAPES, CAROLINA POPLARS BY THE THOUSAND, KIEFFER PEARS AND A GENERAL LINE OF NURSERY STOCK. WRITE FOR PRICES AND GIVE US A CHANCE TO QUOTE YOU AND WE BELIEVE WE CAN PLEASE YOU.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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
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MILLS
WAUSAU, WIS.
GOODWILLIE BROTHERS
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Everything in

Small Fruit Plants.

Ask for price list.

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VIBURNUM PLICATUM.
BERBERRY THUNBERGII.
HYDRANGEA PAN. GRAND.
HONEYSUCKLE HECKROTTII.
and other shrubbery. Send for list and prices.

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ROYAL NURSERIES,

DE BILT near UTRECHT (HOLLAND).

Specialties in Ornamental Trees and Shrubs and Conifers.

Headquarters for London Planes, Tilia dasystylla. Dutch Elms in extra fine specimens. Hydrangea paniculata grandiflora. Silver variegated Maples.

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Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

"Our trees are stocky."

GRAFTED PECANS

AT

WHOLESALE.

THE NUT NURSERY COMPANY,

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ORNAMENTAL STOCKS

We Grow

300 varieties of Conifers, 1 to 4 years old.
1200 varieties of Ornamental Trees and Shrubs, 1 to 3 years old.
1600 varieties of New and Old Ornamental Trees and Shrubs in all sizes.
250 varieties of Climbing Plants.
400 varieties of Conifers 1 to 4 ft. high.
400 varieties of Perennials.
800 varieties of New and Old Roses.

NURSERIES 420 ACRES.

We Have No Agents.

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Offer a complete general assortment of

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Large Stock of Fruit and Shade Trees,
Small Fruits, Roses, Ornamentals,
Forest Tree Seedlings, etc., etc.

SPECIALTY:
DEALERS' COMPLETE LIST OF WANTS.

Packing and other facilities unexcelled.
Please allow us to price your want list.

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Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

ESTABLISHED 1870.

My Specialties for Fall, 1907.

Std. Apple, 2 year fine stock in carload lots.

100,000 Early Harvest B.B. root cuttings, fine plants.

General Line of Nursery Stock at lowest prices.

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We are now booking orders for the following forest tree seedlings, all of our own growing, well graded, in sizes given below. Write us for quotations by the thousand, or in car lots. Our prices are right; so is our stock.

BLACK LOCUST,	sizes 8-12 in.	**CATALPA SPECIOSA,**	sizes 8-12 in.
	12-18 "		12-18 "
	18-24 "		18-24 "
	2 3 ft.	**RUSSIAN MULBERRY,**	sizes 6 8 "
	3-4 "		8 12 "
HONEY LOCUST,	sizes 4-8 in.		12 18 "
	8-12 "	**OSAGE ORANGE,**	sizes 4-8 "
	12 15 "		8-12 "
BOX ELDER,	sizes 4 8 "		12-18 "
	8-10 "		18 24 "
	10 15 "	**BLACK WALNUT,**	sizes 12-18 "
	15-24 "		18 24 "

GERMAN NURSERIES,

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Winfield Nursery Company

WILL BE IN THE MARKET
AS USUAL, WITH

Best Quality Mahaleb,

Black Locust,

Catalpa Speciosa,

and other Seedlings and

Fine Line of Budded Stocks.

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THE WILLIS NURSERIES AT OTTAWA, KANSAS, OFFERS FOR THE FALL OF 1907 AND SPRING OF 1908, A GENERAL ASSORTMENT OF CHOICE NURSERY STOCK INCLUDING A CHOICE LOT OF FOREST SEEDLINGS IN ALL GRADES; 500,000 BLACK LOCUST, 200,000 CATALPA, ASH, BOX ELDER AND MULBERRIES, 10,000 PRIVET AND A CHOICE ASSORTMENT OF SHRUBS, ROSES ETC. ∴ ∴

WRITE FOR PRICES.

A. WILLIS, Ottawa, Kans.

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Apples, Peaches and Kieffer Pears.

We are pleased to announce that we will have our usual, large supply of **Apple** and **Peach**. A good supply of Pear. **Heavy on Kieffer** We grow a general line of Nursery Stock in large quantities, and are in a position to fill large orders. Car load lots a specialty. We solicit inquiries.

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

VINES

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

California Privet.

(800,000 1 and 2 years.)

Asparagus Roots

(500,000 1 and 2 years.)

FOR FALL AND SPRING DELIVERY.

This stock will be first class and
I will be pleased to quote you.

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2,000,000 Black Locust Seedlings

1,500,000 Catalpa Speciosa Seedlings

Also R. Mulberry and Osage.

Our Catalpa are grown from seed of our own gathering here and is carefully selected from the best types of trees of the Speciosa. Get seedlings grown from Northern Seed if you want hardy thrifty stock. We are ready to make prices.

J. A. GAGE, Beatrice, Nebr.

Established in 1866. *500 ACRES UNDER CULTIVATION.*

W. T. HOOD & CO.,

OLD DOMINION NURSERIES,

RICHMOND, VA.

OFFER FOR FALL 1907 AND SPRING 1908

KIEFFER STANDARD PEARS,
CALIFORNIA PRIVET—Fine Plants,
and General Line of Nursery Stock.

Correspondence Solicited.

Colombe = Lenault = Huet,

NURSERYMEN.

Ussy, Calvados, France.

A general assortment of Fruit Trees Stocks, Forest Trees, Resinous Plants, Ornamental Shrubs and Evergreen, Roses and Conifers.

CATALOGUE FREE. VERY GOOD PACKING.
WRITE DIRECT, I HAVE NO AGENTS.

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FALL BULBS and PLANTS

for indoor or outside planting.

All the best and most popular kinds sold by nurserymen everywhere.

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Send for our wholesale catalogue.

We have a very attractive proposition which we can make to nurserymen who handle bulbs. Send us a list of varieties in which you are interested stating the approximate amounts you use and let us give you detailed information about our

SPECIAL PLAN FOR NURSERYMEN.

Write to-day

JAMES VICK'S SONS,

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CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

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Write Us for Prices on Apple, Cherry, Peach, Pear, Plum, etc. Over 1,000,000 Trees

Send Us a List of Your Wants and We will make You Special Prices on the Whole.

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"Red Star" Raffia is different.

Raffia is an uncertain commodity. That is why dealers will not guarantee the quality. The waste is **your** loss. With "Red Star" brand **we** take chances on the uncertainty. Our faith in it is best shown by our guarantee to replace any that proves inferior. Send for free samples and if you do not buy "Red Star" in the future we miss our guess.

Myrobolan Plum & Mahaleb Cherry Seed

Crop a partial failure and harvest is uncertain. Write us **now** if you desire any. To delay may mean a disappointment.

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FOR NURSERYMEN AND FLORISTS

THE QUALITY THAT GIVES SATISFACTION.

No orders too large for our capacity, or too small to receive our careful attention.

SAMPLES AND PRICES CHEERFULLY GIVEN.

DAYTON FRUIT TREE LABEL CO.

SOUTH CANAL STREET, DAYTON, O.

BLATCHFORD'S CELEBRATED PLANT GROWER AND LAND RENOVATOR FERTILIZER.

Composed only of the best qualities of Pure Rose Growers Bone Meal, Nitrate of Soda, Sulphate of Ammonia, Sulphate of Potash, Peruvian Guano and Gypsum.

Nurseries bloom with Health and Plenty where it is used.

Send for Particulars.

BLATCHFORD'S CALF MEAL FACTORY,
WAUKEGAN, ILL.
Established at Leicester, England, in 1800.

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ORANGE QUINCE

Trees, Buds, Scions, Cuttings, Layers and Grafts

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly in season. Write for prices.

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Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
50,000 " June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

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A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

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Salt Lake City, Utah.

Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

Send Your Want List.

101 best sorts

ROSES

Strong Plants, True Labels, Quick Shipment.

Get Our Price List.

Hardy Climbers, Noisettes, Ramblers. Etc.

On own roots.

THE LEEDLE FLORAL COMPANY
SPRINGFIELD·OHIO·

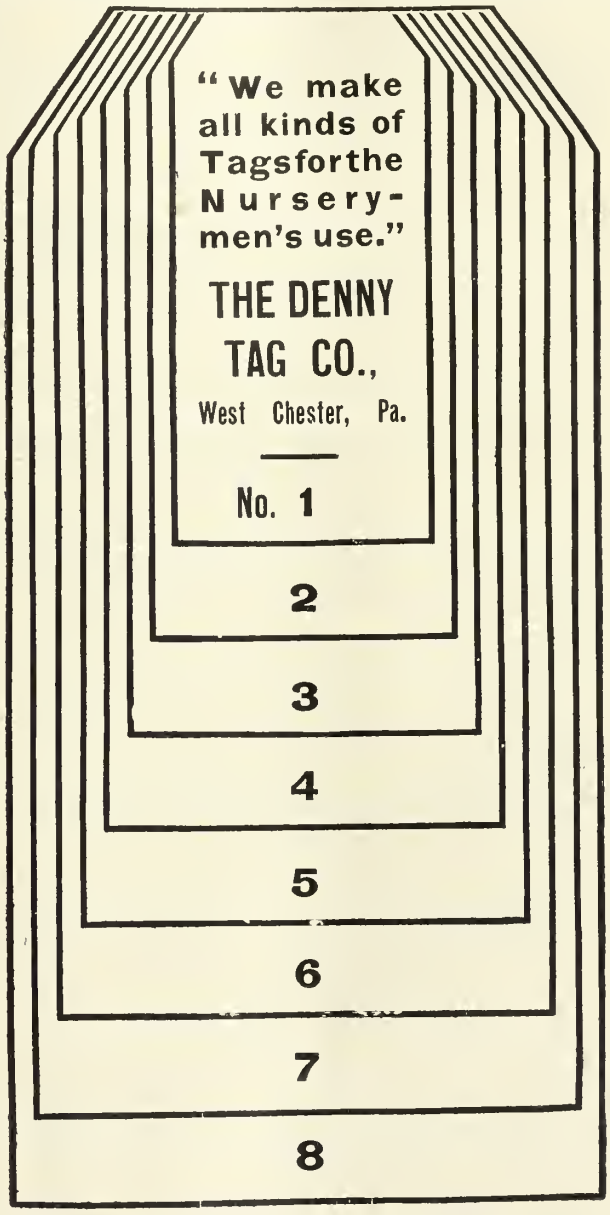
2½ and 4 inch pots.

We Make a Specialty of the Manufacture of

Waterproof Shipping Tags and Tree Labels

"They will stand the weather."

THE DENNY TAG CO., West Chester, Pa.



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Sole Agent for UNITED STATES AND CANADA.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

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The Willadean Nurseries

OFFER FOR FALL 1907,

a very complete assortment of Fruit, Shade and Ornamental Trees, Shrubs, Roses, Evergreens, Small Fruit and Herbaceous Plants, Forest Tree Seedlings in large quantities, including Catalpa Speciosa (genuine) for commercial Forest planting. Tree seeds of all kinds in season. Special prices quoted on the following trees: Tulip, Poplar, Catalpa Speciosa Am. Sycamore, Am. Linden, Green Ash, Eup. Mt. Ash and Oak Leaf Ash, Am. Elm, Red, White, Swamp and Burr Oak from 5 to 12 ft. Write for prices.

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Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application. Write direct, I have no agent.

The Largest Stock of *For Fall, 1907*

CURRANTS and GOOSEBERRIES, Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MÜLLERKLEIN'S NURSERIES,

KARLSTADT (Bavaria - Germany.)

Please ask for prices.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

BLACK LOCUST, HARDY CATALPA, RUS. MULBERRY, HONEY LOCUST AND OSAGE SEEDLINGS

by the 1000 or car lots.

Send us a list of your wants and *don't buy* until you have our prices.

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(Formerly C. ESCHWEILER.)

Growers of Hardy Ornamentals, Forest and Avenue Trees, Conifers, Evergreens and Shrubs; also a fine line of assorted Seedlings, at reasonable cost; Supply only **A 1 QUALITY!** For New Trade List, now issued, Address the American Agents:

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Station A. TOPEKA, KANSAS.

J. H. SKINNER & CO., Proprietors,
Successors to PETERS & SKINNER.

WE OFFER

Apple, Cherry, Peach, Plum, Apricot,

Keiffer and Garber Pear.

Forest Tree Seedlings,

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Keiffer Pear Seedlings,

Shade Trees, Weeping Mulberry,

Bechtel's Double Flowering Crab,

Flowering Shrubs, Roses, Vines,

Grapes, Currants, Rhubarb, Asparagus.

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—SUCCESSORS TO—

ALBERTSON & HOBBS,

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The largest and most complete in the state and one of the largest and best equipped in the country.

FOR

FALL of 1907 and SPRING of 1908

PLUMS (large stock, all grades) European, Japan, AMERICANA, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY SEPT. 1st.

We can supply any amount of light grade pear and SMOOTH STRAIGHT Norway Maple.

WANT LISTS PRICED PROMPTLY

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

You Need Them AND We Have Them

WHAT?

WHY ALMOST ANYTHING IN THE WAY OF

Fruit and Ornamental Trees,

Grafted Pecans and Pears Especially.

WE CAN HANDLE LARGE ORDERS TO YOUR ENTIRE SATISFACTION. WRITE US

ARCADIA NURSERIES,

WHOLESALE—RETAIL,

J. H. Girardeau, Jr., Mgr. MONTICELLO, FLA.

REGRADING

has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Crafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

THE GEO. PETERS NURSERY CO., Proprs. TROY, OHIO.

CHOICE ORNAMENTALS

Ask for Estimates.

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Union Co. Nurseries, Elizabeth, N. J.

JAS. M. KENNEDY,

DANSVILLE, N. Y.

Nurseries at Dansville and Geneseo, N. Y.

GENERAL NURSERY STOCK,

Stand. and Dwf. Pear, Cherry, Apple, Quince and Plum,
Fine stock, 2 yrs. old.

BUDS, BUDS, BUDS, free from San José Scale.

Pear, Plum, Cherry, Quince and Apple, can ship same day order is received.
Send in your order, prices will be made satisfactory.

When writing to Advertisers mention The National Nurseryman.

PEACH SEED

from our home cannery properly dried. Many Seedlings among them. Let me send samples

300,000 Choice 1 year peach up to 6 feet.
102,000 Elberta.
118,000 Plums—fine.
26,000 Burbank 4 to 7 feet.
18,000 Gonzales.

Apricots, Figs, Spalding Blackberry. Choice hardy Native Texas Shrubs, etc., Clematis Coccinnea and Crispa Rain Lilies (Cooperia pedunculata).

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F. T. RAMSEY, Austin Nursery,
AUSTIN, TEXAS.

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WAUKEGAN NURSERIES

WAUKEGAN, ILLINOIS.

EVERGREEN SEEDLINGS
IN LARGE QUANTITIES.

EVERGREENS
FOREST TREES

Largest Stock in America, including Colorado Blue Spruce and Douglas Spruce of Colorado.

RARE-HARDY-BEAUTIFUL

Also Ornamental and Shade Trees, Shrubs etc.

Wanted

The following for fall or spring delivery. All first-class, well grown, properly transplanted stock. Evergreens taken up with ball and burlapped.

25 Andromeda Japonica 15-18″
190 Cratægus pyracantha 12″
50 Ilex crenata 2′
10 Biota orientalis 4-5′
1 Aesculus hippocastanum rubicunda 10-12′
96 Catalpa bignonoides var. aurea 6-8′
18 Catalpa bignonoides 10-12′
15 Crataegus oxycantha coccinea fl. pl. 4-6′
9 Platanus occidentalis 14-16′
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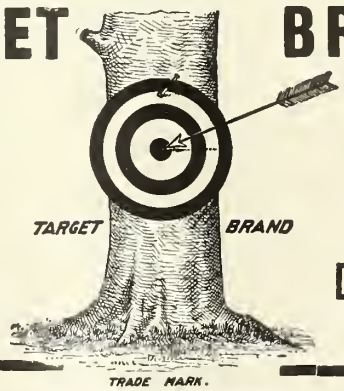

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CONTROLLING DISEASES IN THE NURSERY

By Professor J. B. S. NORTON, Pathologist, Maryland Experiment Station.

[Written Specially for the National Nurseryman]

As I understand, the object of a nursery of trees and plants is to grow well-developed, healthy, vigorous trees and plants of such size as is required by the trade. The ability to do this is largely a matter of the kind of stock used, the propagating methods, cultivation, etc. Other things which can be controlled by situation and selection in the natural environment of the nursery come in to modify the normal growth, such as soil conditions, normal climatic conditions, etc. Ce tain restrictions of the ideal grown may then be looked for normally, and these are not regarded as loss, but as part of the regular expenses of growing.

There are, however, the unexpected things, such as unfavorable weather, insects and parasitic fungi, which cause the greater losses; ,though the profit in growing nursery stock is often decreased by insects and fungi which are so common that they are not regarded. The early leaf fall or lack of growth being considered normally, when in fact they might have been prevented by easy spraying methods. This is particularly the case with the leaf diseases due to parasitic fungi.

FUNCTION OF THE LEAF.

The importance of the leaves must be recognized, as they are among the most essential parts of the plant. Every particle of material for growth, as is well known, must be prepared in the leaves before it can be used to increase the diameter or produce new branches or roots on young trees; so that for healthy growth it is necessary to have an abundance of leaves, and the longer they remain on the longer the growth will keep up, and the greater its amount will be. In northern nurseries, where the season is short and the annual growth must necessarily be small, this is of all the more greater importance; but in the southern States, with whose nurseries I am more familiar, the leaves may sometimes remain on the trees longer than it is desired. However, even here, in many cases the loss of growth is very noticeable, due to the early fall of leaves from the effects of fungous diseases.

It was demonstrated many years ago by experiments conducted by the United States Department of Agriculture in Maryland and New York, that spraying with Bordeaux mixture five to seven times during the growing season is a great benefit in preventing the early fall of leaves so common on many varieties of nursery stock. The diseases that are most noticeable here in Maryland of this character are the leaf-blight of pear (which, of course, must not be confused with the twig-blight, or fire-blight of pear, which is due to a different cause, and acts in a different way, and of which I shall speak later), the scab, mildew, leaf-spot, and rust of apple, the mildew and leaf-curl of peach (the leaf-curl, however, occurring only in the early part of the season, and the mildew being bad only on a few varieties, such as Tillitson). the leaf-spot of cherries and the mildew of grapes. Practically all of these could be controlled by proper spraying with Bordeaux mixture, and many of our nurserymen put it into practice every year, some of the larger nurserymen keeping a sprayer going nearly all of the time during the summer. The peach leaf-curl is as a rule not serious in the nursery, and the greatest loss in Maryland nurseries is due to the leaf-blight of the pear, which frequently causes the loss of all of the foliage before the middle of August, and the cherry leaf-spot often causing the leaves of the cherries to fall very early in the season. Many of the plums are affected in the same way; the spraying of the plums for the leaf-spot can hardly be advised, however, as many varieties are injured by the Bordeaux mixture. The peach is also very sensitive to this preparation, and if it is used at all outside of the dormant season, must have a great excess of lime; say, three pounds copper sulphate to eight or nine pounds of lime in fifty gallons of water.

The grape mildew is usually very serious, especially on certain delicate varieties, and the death of a great many plants in the nursery is largely due to the loss of strength by the effect of this mildew on the leaves; and the spraying of grape stock would, in my judgment, be one of much benefit to the nursery.

NURSERY SANITATION.

Cleanliness in the nursery is one of the most important things in controlling diseases, although the spraying

mentioned is not to be neglected. A great many of the diseases found on nursery trees are also found on wild trees which may be growing in the vicinity. The ideal place for a nursery would be away from all woods and orchards, and the hedgerows and fences should be kept clean from all shrubbery liable to carry disease or insects. The leaf diseases which I have mentioned, although perhaps being the cause of loss of growth more than anything else, are comparatively easy to control, when the diseases of the stem are taken into consideration. The black knot of plum which is the worst of these, perhaps, that we have to contend with here, although it is uncommon on nursery stock. I have often seen old wild-cherry trees carrying knots of this disease as big as a man's body, standing along the fences in nurseries, and offering every chance of infection to the young stock. Cedar trees, so common in the South, along fences where they grow up naturally from seeds left there by the birds, cause the infection of many varieties of apples with the leaf rust, which infects them from the other stage of this fungus in the so-called cedar apples. This leaf rust is difficult to control by spraying, and could be largely prevented by the removal of the cedar trees from the neighborhood.

It is no doubt necessary to have trial orchards in connection with nurseries, but orchards, and especially old, worthless trees standing around the nursery, are simply infection points for fungus diseases of different kinds, and always are an indication of lack of care in growing the stock to any person visiting the nursery. A nursery, in my judgment, should be entirely removed from all old trees of any kind, since they are very likely to be full of fungous diseases and insects, unless especially well cared for. The stock held over by nurserymen, especially the smaller nurserymen, and heeled in near the growing stock, is also a menace of this kind, as it is usually of less vitality, so is more liable to be infected early by fungous diseases which may then pass to the young stock.

Where it is not possible to have a nursery away from the woods and orchards, the trees especially to be looked out for and removed are those which are closely related to the cultivated stock, such as wild cherry, plum, hawthorn, crab apple, etc.; and those which carry other stages of parasitic fungi, although not related, such as the cedar, which is a host of the apple-rust.

COMMON DISEASES.

There are certain other diseases of nursery stock which have to be controlled in a different way. The anthracnose of the raspberry should be looked out for, and although some good can be done by spraying with Bordeaux mixture, the best method would be to carefully select healthy stock for propagation, and if the raspberry fields in the nursery became infected, to start other blocks, taking particular care to set with healthy plants, in other parts of the nursery distant from the infected places. The orange-rust of blackberry and raspberry needs also special care to prevent its spreading. It can hardly be treated by spraying, but all the diseased plants should be destroyed, even to the roots in which the fungus passes the winter.

The twig-blight or fire-blight of apple, quince, and especially pear, needs special treatment. It is most common on trees which have flowers, since it is more easily introduced by bees through the flowers; but, as is well known, it occurs frequently in nurseries of young trees. It usually appears in the latter part of summer, and although not often abundant enough to cause much loss in the growth of the trees, the nurseryman must look out for it to prevent its further spread and its being carried to his customers' orchards. The blight can best be controlled by cutting out the blighted twigs and branches in the latter part of summer, cutting six to ten inches below the lowest visible marks of the disease on the bark; or, if not abundant, perhaps cutting off the infected trees entirely. It is especially important that pear varieties susceptible to the blight should not be grown near old orchards of apple or pear, where this disease is liable to be present. And if it is grown there, especial care must be taken to keep the blight out of the old trees; the many cases in the old bark requiring close scenting to find them.

Peach yellows, while often introduced from the nursery, has been but rarely seen in the young trees. It has been demonstrated that this disease is easily propagated by taking buds from diseased peach trees, and even from trees which do not at the time show the disease, but develop it in a few years; and as a rule, nurserymen are careful not to use buds from affected orchards. It is a common practice, also, to use the pits from seedling trees from regions where yellows is not found; particularly from the southern part of the United States, as a means of preventing the disease in nursery trees. From the tabulation of reports on thousands of orchard trees, obtained from the different nurseries in Maryland, and in some other States, I have been able to detect no particular difference in the amount of trees developing yellows from different nurseries.

ROOT TROUBLES.

The root diseases of trees in the nursery are among the most aggravating forms of unhealthy conditions, especially the crown gall, which has caused much trouble and loss to nurserymen from the efforts of the State inspectors to prevent the dissemination of this disease to orchards, no doubt a great deal of the loss being unnecessary. Recent investigations have shown that a number of distinct troubles have been confused with this name, and that the crown gall disease on certain kinds of trees like peach, and some species of plum, as well as raspberry, although in these cases very injurious, is distinct from the disease to which the same name has been applied on apple. It may be pretty certainly said that the hard wood gall near the junction of the stem and root of apple stock is not contagious; and however injurious they may be to further growth of the tree, there is no very definite information on this question. It is more

probable that the root galls found on apple, although not common, may be of an entirely different character. Another disease, which perhaps is best known as hairy-root, is confused sometimes with this, and causes a stunted root system and the development of stiff root branches from the main root, totally distinct from the natural fibrous roots, and though perhaps not contagious, is of a much more injurious nature. The affected roots probably in most cases die, and the further root growth of the tree is supplied by new roots developing above the affected portion.

Unfortunately, there is no very practical means of controlling these diseases in the nursery, although a few years' further investigation may yield something of value. Even if the hard galls do not injure the apple, the tree-affected ones can hardly be called perfect trees. and many observers think that they have seen a decided injury in the orchards from the planting of such trees. The trees affected with the galls are certainly more likely to send up sprouts from the base of the trunk, which is some indication of lack of healthy growth in the main tree. The hairy root, as well as many of the galls, may be avoided by careful selection of seedling stock which, if diseased, shows already the effect in the development of the stiff fibre, or rough bark. Anything but perfectly healthy roots should be thrown out and not used for propagation.

The soft gall on the peach, plum and raspberry is quite distinct and injurious. It is infectious, and ground that has been planted in trees affected with this disease should not be used for some years for the same stock, and great care should be taken in propagating to not communicate the disease with knife or by contact with roots from diseased fields.

FOREIGN CROP REPORTS.

There is no improvement in the reports for a fruit crop that will compete with our exports of apples and pears.

Great Britain.—The crop in Great Britain will be exceedingly light, affording a splendid opening for early and fall apples, as well as for the winter crop.

Germany.—The apple crop is somewhat better in Germany, but nevertheless there will be a demand for imported fruit.

France.—Indications are for a rather poor crop of apples, except in the 'Dieudonne' district, where for many years there has been no crop. This is a fine colored apple which is well appreciated in England, but the bulk of this fruit will be consumed in France. As the French season is now closed, in England, their shipments of apples will not compete with our export of early varieties.

Belgium and Holland.—Have only a very moderate crop.

Italy.—A fair crop is reported in Italy, but the bulk of these will be forwarded to Germany and Hungary. A dessert variety of Italian apples has been shipped to England, where it sold at wholesale for 5 to 6 shillings per basket of 18 pounds. The apples were neatly packed and presented an attractive appearance.

United States.—The prospects for apples in the United States have not improved. The drought is affecting the northern tier of States to the same extent as in Ontario. Michigan has very much below an average crop, and New York is scarcely average. The New England States have only a very moderate crop. The Southwestern States, that usually supply so large a quantity of early and fall fruit, are almost a complete failure. Peaches are reported light in all the commercial orchards, and grapes scarcely up to the average.

Ottawa, Can. A. McNEILL.

Quiz Column.

EDITOR NATIONAL NURSERYMAN:

Please inform me whether blackberry root cuttings can be planted in the fall, or how do I keep them through winter if to be planted in spring? Very thankful for information.

Creve Coeur, Mo. W. M.

Answer: Better prepare your root cuttings this fall. Pack them in boxes with soil and store in cold cellar, or bury boxes outside protected from frost. They will callus nicely during winter. Plant early in spring. [ED.]

A BEGINNER.

EDITOR NATIONAL NURSERYMAN:

I am working into the nursery business in a small way, gradually developing it from small fruit propagating and growing, in which I have been very successful and I am running up against things sometimes where a little help from an older and more experienced man would be appreciated. I find it almost impossible to get a stand of apple seedlings.

Can you give me the proper method of treating and planting apple seeds in order to grow stocks for piece root grafting?

I budded a few plums last year. The buds seemed to set all right. I ridged up the row and left it till the ground opened up well in the spring, then removed the dirt. The base of nearly every bud and the whole strips of bark had grown solidly to the stock and were green and healthy looking. But no buds put out when the rest of the trees leaved out and upon examination I found that while the bark and base of bud were alive the eye of the bud was brown and dead. What was wrong, should I have cut the stock back when I uncovered it? Was the bud too immature when cut or what ailed it? I have about 4,000 fine stocks to bud on this coming August and I am very anxious that my budding be successful. Can I bud the hardy cherries, like "Homer," on wild plum stocks for this severe climate? Which is the better apple seed to use for this section, French crab or Vermont seed? What is the proper season to layer gooseberries and how is it done? I have propagated from cuttings for years, but would like to try layering. Thanking you in advance for any assistance you may give me, I am,

Pine City, Minn. O. J. GRAHAM.

This communication contains a great many interesting points, and as we are as much concerned about the beginner in the nursery business as about the man who has become well established, we are very glad to offer you such advice as our experience enables us to give.

In the first place, we would not advise you to attempt growing apple seedlings in a small way. This is a business in itself. If you only want a few thousand, it will pay you to go to the man who makes a business of growing them and buy of him. There are great quantities growing in southwestern Iowa, Nebraska, and in Kansas. Consult advertisements in our pages. This advice you will find will save you money.

In reference to the failure of your plum buds, we think that this is to be charged to the character of the season. It is possible that you ridged them up too early in the fall before the bud thoroughly ripened. The handling of buds is a matter which can only be learned by actual experience, and even then failures occur. The stock should be cut back while it is thoroughly dormant, because if the tops are left on, the vitality and growth will go into the natural channel, and the bud will remain dormant or make only a feeble growth.

We would not advise the budding of cherry on native plum stocks. While a union will occur, there is such a lack of affinity, that the growth between the two is very uneven and the result is a short-lived tree. Probably the best stocks for you to use in that vicinity are the sprouts of the Morello cherry. There are a few nurserymen in the Northwest who make a specialty of these. If you have any Richmond or Morellos on their own shoots you can secure sprouts for lining out and budding. The native sand cherry is used as dwarf stock, but not very successfully.

We don't think anyone can tell you which is the best apple seed to use. As a rule, the French seed is rather more uniform than the Vermont grown seed, because the Frenchmen have developed the business more systematically, and perhaps give greater care in the selection of the seed.

Gooseberries are layered during the month of June. If they are grown in a row the layering is a simple operation. It simply means plowing the soil up to them on either side and then filling in the crowns by hand so that only the tips of the branches remain uncovered, This is what is called the nurserymen's method of mound layering. [ED.]

FUMIGATION WITH POTASSIUM CYANIDE

By M. S. ANDREW.

The San José scale is one of the most dreaded pests with which orchardists have to contend, and its control therefore becomes a matter of the utmost importance to every fruit grower. It now seems certain that its eradication will never be accomplished, but as it threatens the life of the fruit industry, every effort should be made to combat its progress and effectively protect fruit trees from its attack, or rid them of its presence when they once become infested. Various plans have been suggested for accomplishing this end, but one of the most satisfactory is the direct fumigation of the stock sent out by nurserymen before it is set out, or of the trees in the orchard after they have reached maturity. The success of fumigation when properly done, as a means of destroying the San José scale, is now quite generally recognized, but its practical application is not as extensive as the value of the treatment would seem to warrant.

The essentials necessary to success with this method are an air-tight receptacle and absolutely pure chemicals. Fumigation may be done, of course, in an air-tight house where small trees are to be treated, or a tent may be used to throw over large trees as they stand in the orchard. To make the method practical, low-heading is, of course, advisable, but this method of pruning is now regarded with favor by many of our most successful fruit growers, owing to the ease with which the crop is harvested.

The fumigating mixture is made by using one ounce of 98 per cent. potassium cyanide to each 100 cubic feet of space to be treated. Two ounces of sulphuric acid and four ounces of water are mixed together and the potassium cyanide is then added. This is known as the "1-2-4" formula, and is now regarded as the most effective combination that can be used by experienced horticulturists. The mixing together of these materials results in the production of large volumes of hydrocyanic gas which is one of the most deadly poisons known, and its confinement in the space to be treated is naturally of the utmost importance. This treatment is said to be have been discovered by Prof. Coquillet, of California, in 1886, and the method has steadily increased in public favor as a satisfactory means of combating the scale; but a failure to observe the greatest care led many to conclude at one time that it was not altogether satisfactory.

Investigations have shown that there are various grades of potassium cyanide on the market, and the unsatisfactory results following this treatment in some instances have been due to the adulterated cyanide which was used, and which, unfortunately, is often found on the market now in large quantities. Tests have shown that to be most effective, the cyanide must be at least ninety-eight per cent. pure and that its adulteration with common salt, which is one of the most commonly used adulterants, results in materially reducing the efficiency of this method of treatment. The nurseryman who proposes to fumigate his stock, therefore, should spare no effort to obtain only the purest and finest quality of potassium cyanide. This he can generally do, if he purchases from reliable parties and insists on an absolute guarantee of purity. Investigations have shown that there are several firms who manufacture a high grade of goods that are strictly up to the standard. These manufacturers, of necessity, have to charge a little more for their product because of the higher cost of manufacture of pure materials. Their product, however, is of so much higher grade, and so much more valuable on that account that the difference in price is more apparent than real.

The conclusion is, therefore, that a failure to secure satisfactory results in fumigating nursery stock is due chiefly to adulterated potassium cyanide, or to the use of a house which is not air-tight, or to the careless covering of the trees in the orchard. Remember that more hydrocyanic gas is obtained when the potassium cyanide is added to the mixture of acid and water; that adulterants of any kind reduce the efficiency of the potassium cyanide and cause a loss of hydrocyanic gas.

It has been stated that sodium cyanide has greater efficiency than potassium cyanide, but this statement has been disproved by experiment. The potassium cyanide is thoroughly decomposed by the acid, while the sodium cyanide is not, and where considerable quantities are used, it is worth while to save the residue of the potassium cyanide for use as a fertilizer. This residue is valuable for this purpose, not only for the potash it contains, but carries the potash in its most valuable form; that is, sulphate of potash, worth at least $2.50 per 100 lbs.

The vital danger threatening the horticultural interests of the United States makes the extension of this method of treating nursery stock, or protecting growing trees from the scale, one of widespread concern; and the ease, efficiency and economy of using potassium cyanide, commends this method of fumigation to the most favorable attention of the horticultural practitioner.

THE NEW ENGLAND NURSERIES, INC.

The name is appropriate because it represents the most extensive horticultural establishment in the New England States, with its nurseries and offices located in the densely populated section of Eastern Massachusetts, about fifteen miles from Boston.

Last spring this corporation purchased the entire nursery property (about two hundred acres) formerly owned and operated by the Shady Hill Nursery Co., of Bedford and Boston. During the past summer extensive improvements have been in progress, both in cleaning up the land and erecting new buildings. The largest cold storage cellar and warehouse in New England is nearly completed, and will be ready for occupancy this season. The walls are constructed of stone and the whole structure is built after the latest approved method and design.

The extensive business carried on for many years by the Shady Hill people, has by this change been placed upon a sound financial basis.

The sale management lies with Mr. Theo. J. Smith, of the W. & T. Smith Co., Geneva, N. Y., and Mr. A. E. Robinson, formerly with said W. & T. Smith Co., but who, for the past six years has been prominently connected with nursery interests in New England. None of the old Shady Hill Company are connected in any way with the New England Nurseries.

Fruit and Plant Notes.

PARENTAGE OF SANTA ROSA PLUM.

Fresno, Cal., August 8, 1907.

EDITOR NATIONAL NURSERYMAN:

Regarding the origin of the Santa Rosa plum, I beg to state that it is a cross of the Satsuma with one of the Americanas and Satsuma. Mr. Burbank says that the Americana is probably "Hawkeye" but he is not quite sure of this as he did not have the opportunity of looking into the matter carefully. I do not think that this plum is adapted for canning purposes, but for eating out of the hand I regard it as a very valuable plum. The sample sent you was one from some young trees grown in San José, Santa Clara County. They were not equal to the samples which I received from Mr. Burbank from his farm at Sebastopol. The acid character, which you refer to, in the skin is quite noticeable when the plum is in a very ripe condition, but is not so pronounced when they are very firm.

Fresno, Cal. GEO. C. ROEDING.

THE NOMENCLATURE OF HYDRANGEA ARBORESCENS STERILIS. (GRANDIFLORA ALBA.)

EDITOR NATIONAL NURSERYMAN:

This new Hydrangea is now being catalogued by nurserymen, who naturally regard Bailey's Cyclopedia of American Horticulture as the standard of authority in nomenclature. The name under which this work describes the new candidate for public favor is given at the head of this article and is botanically correct, descriptive, and was the *first published*. This plant has since been registered with the Society of American Florists as "H. arborescens grandiflora alba." This name is descriptive but is long and is so similar to the H. paniculata grandiflora as to cause confusion in the minds of the people as well as on the packing ground. Permit me to suggest that nurserymen catalogue this plant according to Bailey who is our "lawgiver" as to names.

J. W. MCNARY,
Dayton, Ohio.

NOTE:—How is this brother Registrar of the S. A. F.? What about the rule of priority? ED.

THE NEW HYDRANGEA.

The free flowering habit of the new American Hydrangea, H. Arborescens Sterilis, (*H. Arborescens Grandiflora Alba*), is something very unusual in a hardy flowering shrub. Spring-set plants grown from cuttings last year, and reset the past spring, have been in bloom since the latter part of June, and are likely to continue to produce fresh flowers until the end of summer. Finely formed flowers eight to ten inches in diameter, in form of Otaksa, but absolutely clear white, are now seen. We have now, August 27th, such plants; the earlier flowers ripened to about the color of the green foliage, other blossoms in same plants a little past their best white, still others nearing perfection, with other flower buds all the way from just discernible to nearing opening. So we are sure of fine flowers from the same plant from the latter part of June, daily until well along in September. Last season, we had the same conditions, fresh flowers every day from June 10th until October 10th, when a severe frost and freeze, the first of the season, killed the bloom and foliage. At the latter date there were quantities of flower buds in all stages of development.

In one locality, where this Hydrangea has been grown in dozens of gardens for about twenty years along with H. Paniculata grandiflora, the new variety blooming continuously from early June till toward fall, it was as natural for the common people to call the new form "Everblooming" as it is for ducks to take to the water.

As to the hardiness of this hydrangea, besides our own rigid tests, we learn that small plants set last fall on a bleak prairie in northern Illinois, without any protection, passed through the winter safely, starting from the tips, while Weigelas and other shrubs considered hardy, were killed to the ground.

It should be a matter of pride to Americans that we have a native Hydrangea equal in every respect, in beauty and value, to the well known Hydrangea paniculata grandiflora, and unapproached in long season of bloom by any other hardy flowering shrub known to horticulture. E. Y. TEAS.

IS IT SAFE TO PLANT JONATHAN IN LARGE SOLID BLOCKS?

This question is propounded in a recent issue of the *Fruit Grower*, by Mr. Farnsworth, of Ohio, and is answered by Blair, of Illinois, Whitten, of Missouri, and Waugh, of Massachusetts. Each correspondent recommends the addition of other varieties to insure fertilization, though no one positively states that Jonathan does require a pollenizer.

Some of the writers, however, fail to recognize the principle that a variety may be practically self-fertile under one set of conditions and largely self sterile under another. While it is safe to recommend the mixing of other varieties which bloom at the same time as Jonathan, yet it is after all a question of environment; for we know of Jonathan orchards that not only bloom well, but bear well without the aid of other varieties.

WINDSOR CHIEF APPLE.

Marshall Bros., of Arlington, Neb., say of this apple: "We exhibited this apple at Paris, picking the specimens from the same trees that bore those you saw at Detroit, winning the highest awards that could be given on a variety of apples. The tree is vigorous and the best annual bearer we have in our orchards. This is saying a good deal as we have a large collection. It requires very little sorting to make it ready for first-class market, and also tops the list as a keeper, as they ripen and are good eating by December first and can be kept in an ordinary cellar with ordinary care until April."

Another good point not mentioned by Marshall Bros. is the hardiness of the variety. It succeeds well in the coldest parts of Ontario and Quebec.—ED.

FRUIT MARKET CONDITIONS.

There is a decided shortage in Europe and America in early tree fruits of all sorts. The only districts showing any approach to an average crop of winter apples are the New England States and Districts 2 and 3 in Ontario and 6 in Nova Scotia. The aggregate crop of the United States on the average is about 50,000,000 barrels; their exports seldom reach 2,000,000, or putting it another way, the United States export about 3 per cent. or less of their total production. There will be produced this year probably between 35,000,000 and 40,000,000 barrels, but this reduction is very largely in the early and fall fruit. The States producing the earlier apples have less than half an average crop. The States producing winter apples have nearly a medium crop, but of late years the cold-storage warehouses have increased so rapidly that much of the fruit put upon the markets during the winter of 1905-6 and 1906-7 came from the Southwestern States, having been held in cold-storage warehouses. This year the local markets will consume as fast as it is offered the whole of the crop coming from these States, and much, if not all, from the northern tier of States. If the consumption should be equal to former years, there will be no surplus for export, and much fruit would have to be imported. There will, however, be a strong demand from Great Britain and the Continent for at least a limited quantity of fruit, though it may be at high prices. It is therefore, quite probable that consumption will be severely curtailed, both in Great Britain and in the United States. The general commercial condition would not warrant the assertion that the apples would be purchased at any price Indeed, the indications are that a moderately high price for apples would distinctly curtail the consumption.

Ottawa, A. MCNEILL,
August 1907. *Chief, Fruit Division.*

Tulsa Nursery Co., wish to announce through the NATIONAL NURSERYMEN to those having three addresses on their mailing list viz.,—Waring Bros., T. W. Waring & Sons, also Tulsa Nursery Co., Tulsa I. T., to change the same to Tulsa Nursery Co., Tulsa, Okla.,—they will thereby save a great deal of extra postage. The firm's name was changed two years ago, but it is still under the same management and owned by Waring Bros.

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ROCHESTER, N. Y., OCTOBER, 1907.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

THE SHIPPING SEASON.

The nurseryman's busy season is again upon him. Fall rains have improved the digging, while the dry weather of August in the east has ripened the wood. The shipper now finds himself up against a tangle of directions covering the transportation of his stock. The regulations have been growing more and more varied and intricate. It is sincerely to be hoped that the committee in charge of this matter will come forward with something promising in the way of uniform legislation. In the meantime, we are offering our suffering brethren a digest of the laws in existence, not for their comfort, but, we trust, for their guidance.

THE MOISTURE FACTOR.

The distribution of rainfall has been somewhat peculiar this year. In the early part of the year, lower Florida and parts of the Gulf region were involved in a serious drought. The dry spell broke, however, and abundant rains saved the tree crops in the South. In the early summer, rains were frequent in the Middle West and Northeast. The Middle West continued to be favored during summer, while New York and parts of New England were parched. Relief did not come to Central and Western New York till early September. However, "'tis an ill wind," etc., for the dry weather suppressed grape-rot, apple-scab and other fungous diseases to such an extent that the fruit crop in the dry sections will be of exceptionally good quality. In a few sections in the Middle West the budding season was interfered with by excessive wetness. On the whole, the nurseryman has few "kicks coming" on the score of bad weather.

INSPECTING AND STANDARDIZING GRADES OF FRUIT.

One of the most important committee reports presented at the recent meeting of the American Pomological Society was that offered by Mr. W. A. Taylor, of the U. S. Division of Pomology, in regard to the standardizing of grades of fruit, and the establishment of a national system of inspection. The report urged the establishment of uniform standards as a prime requisite. The chairman offered a tentative set of grades for apples. These descriptions will appear in a later issue of THE NATIONAL NURSERYMAN.

Mr. Taylor's report was supplemented by a strongly favorable account of the working and influence of the Fruit Marks Act in Canada, by Mr. A. McNeill, of the Dominion Department of Agriculture. This narration created such a favorable impression, that a resolution, moved by Capt. C. L. Watrous, asking for the appointment of a committee to handle the whole, was unanimously passed. This committee is a representative one, including such men as Watrous, Iowa; Taylor, Washington; Barry, New York, and Williamson, Illinois. The action of the committee will be awaited with interest.

AMERICAN POMOLOGICAL MEETING.

The thirtieth biennial session of this representative body of fruit growers was held according to schedule at the Jamestown Exposition, September 24-26. The meeting was one of the most successful of recent years. The attendance of prominent fruit growers from the Middle West was large, while the number of college and experiment station men has never been exceeded. Prior to the meeting fears were freely expressed that the members would be roasted, or parboiled or stewed by the high temperature and excessive humidity. On the contrary, the weather was delightful; bright sunshine, bracing breezes, with cool nights. The hotel accommodations were satisfactory and the courtesies extended by the local committee much appreciated. It was pleasant to see veteran members, like W. C. Strong, of Waban, Mass., a life member of over fifty years' standing; Col. G. B. Brackett, of Washington; C. G. Patten, and Capt. Watrous, of Iowa, leading in the discussions and taking an active interest in the affairs of the Society.

Canada sent a strong delegation, and in recognition will, in all probability, secure the next meeting. The competition for the Wilder medals was keen. The large exhibit of Ellwanger & Barry, of Rochester, added greatly to the display in the court of the States' Exhibit Building.

THE AMERICAN POMOLOGICAL SOCIETY.

A NOTABLE GATHERING.

The Thirtieth Biennial Session of the American Pomological Society was held in the States' Exhibit Building, on Jamestown Exposition grounds, beginning September 24th. About 200 members were in attendance. The Society was welcomed by President Tucker, on behalf of the Exposition, and Mr. Woods, President Virginia Horticultural Society. Capt. Watrous, of Iowa, responded. The tables were adorned with a fine display of flowers and fruits, particularly semi-tropical fruits from Virginia and other southern States, such as pomegranates, figs, pineapples and oranges. After the opening session, the Society for Horticultural Science met jointly with them. Dr. Herbert J. Webber, of Cornell University, gave an interesting talk on experiments made in crossing citrus fruits, mainly with the aim of producing hardy, or frost-proof varieties. By crossing the hardy trifoliate with the ordinary sweet orange, a fruit has been obtained, called citrange, from which it is hoped to develop a new group of citrus fruits that can be grown and be of value north of the present citrous region.

Col. G. B. Brackett, U. S. Pomologist, gave a review of work done within the last two years in the way of originating new fruits. Prof. W. R. Lazenby, of Columbus, O., gave a sketch of the life work of those responsible for "Origin and Improvement of Horticultural Varieties in Ohio."

In discussing these papers Mr. Macoun, of Ottawa, Canada, drew attention to some Canadian problems: They had an immense area of land extending almost to the Arctic Circle and where the problem of producing an apple that would stand their winters was the most important one; they were working with promise of good results in crossing the Pyrus baccata; apples of the size of Transcendent Crab had been produced by crossing this with Duchess and other hardy sorts, and further developments were expected.

Mr. C. G. Patten, of Iowa, said that in his experience with cross-breeding he had found that in most cases the pollenizing parent has much more to do with the result in tree and fruit than has the female parent. Professor Hansen disagreed with this opinion, stating that with plums he had found the opposite to be the case.

A paper by Mr. C. I. Lewis, on the Hood River Valley country, read by Secretary Craig, led to a discussion of the possibilities of that country, Mr. Van Deman making the statement that Hood River apples had been sold this year at the railroad station for $3.25 per 50-pound box, or $9.75 per barrel, the cost of raising apples, spraying, picking and packing, being only 50 cents per box. Mr. Close, of Maryland, did not propose to have the West outdo the East, and arose with the statement that apples grown in Delaware had been sold in New York at the rate of $11.25 per barrel. Mr. Starke, of Missouri, recorded an equally good sale.

The second day's session of the American Pomological Society was opened by a talk on "A Promising Treatment for Control of Brown Rot of Peach," by Mr. W. M. Scott, U. S. Bureau of Plant Industry. Mr. Scott stated that from experiments made during the past year in Missouri, he had found that a preparation consisting of ten pounds of sulphur, fifteen pounds of self-cooked lime to fifty gallons of water, sprayed on trees, saved nearly ninety per cent. of fruit on Elberta peach trees, while other preparations produced a much less favorable result. Where the application was made early enough, it also controlled scab and bitter-rot. Mr. Waite, in the discussion, said that in his opinion, the most important fact was that for the first time a fungicide effective against brown-rot and scab had been applied to foliage without burning it.

Mr. W. T. Macoun, of Ottawa, Canada, read a paper entitled "Fruits of Canadian Origin," stating that about 300 named apples had originated in Canada, and perhaps 200 other kinds of fruits. The apple is the most important Canadian fruit, the most notable being the Fameuse, which, according to the best evidence, originated along the St. Lawrence; next the McIntosh, originated at Dundela, Ont.; the Scarlet Pippin; St. Lawrence; Ontario; Baxter, Banks' Gravenstein, and Walter. Of gooseberries, the most important varieties originated in Canada are the Red Jacket and Pearl; of pears, the Dempsey and Ritson; peaches, Banner, Fitzgerald and Tyhurst; plums,

Kingston, Glass; grapes, Brant, Canada and Kensington.

President Goodman, delivered his annual address, in which he gave a history of the Society since its formation in 1848, and referred to the enormous progress made in horticultural matters since that time. He recommended uniform packages for apples, as well as grading. A committee favored the adoption of his recommendations.

Mr. M. B. Waite, U. S. Bureau of Plant Industry, spoke on "Control of Pear Blight on the Pacific Coast." The blight, he said was introduced into California some eight or nine years ago, presumably with nursery stock. Bartlett pears is the variety mainly grown on the Coast, and whole regions were threatened with destruction. It was Mr. Waite's endeavor, while there, to secure co-operation among growers, looking toward a systematic cutting out of the blight wherever it appeared, the main difficulty being in getting workmen whom it was possible to educate in the art of discovering and treating the disease. The best time for cutting is in the fall; tools used should be immediately disinfected with corrosive sublimate, and wounds painted over with white lead.

Professor U. P. Hedrick, of N. Y. Exp. Sta., read a paper on "Mendelian Characters in Tomatoes."

Mr. C. G. Patten, of Iowa, gave his deductions from "Experimenting in Breeding Orchard Fruits for the Upper Mississippi Valley." among these deductions being: That the Baldwin, Rhode Island Greening, Spitzenburg and Newtown Pippin are wholly worthless in tree over an area of some 700 miles north and south, and 1,200 miles east and west between the lakes and mountains; and that such varieties as the Fameuse, Golden Russett, Perry Russett, Talman Sweet and Northern Spy, are only partially successful in a very limited area on the eastern and southeastern border of this district.

IMPORTANT RESOLUTIONS.

The committee on grading and inspecting fruit presented a preliminary report. This report offered a tentative classification of apple grades in which special stress was laid upon color and finish. The following terms are used: "Fancy," "Extra," "Choice," "Standard" and "Orchard Run."

A committee was appointed to take up the whole matter of fruit inspection with the Department of Agriculture at Washington, and the State Horticultural Society. The campaign will be pushed the coming winter. The text of the report will be published later.

The committee on National Council of Horticulture reported in favor of the principle underlying the organization, but deprecated the tendency of the Council, as shown in its recent program, to take up pomological or technical subjects belonging in the field of older established societies. The report suggested the appointment of delegates to the council. After some discussion, the report was received, but not adopted.

EXCURSIONS.

Interesting diversions were provided by the local committee in the form of a watermelon lunch, a visit to the cellars of the Paul Garrett Wine Co., the home of the Scuppernung, and a trip to the native heath of this southern grape, not far from Virginia Beach.

The Canadians sent strong representatives in the persons of Messrs. Alex. McNeill and W. D. Macoun, of the Dominion Government, Ottawa; Professor H. L. Hutt, Ontario Agricultural College, and Mr. R. B. Whyte, of Ottawa, representing the Ontario Horticultural Associations. It is not improbable that the next meeting of this Society will occur on the Canadian side.

On the whole, the meeting was most successful. The attendance was excellent, papers interesting, and weather conditions ideal. The much feared warm weather was not in evidence, and overcoats were not uncomfortable in the evenings.

The Exposition is well worth visiting. It has materialized slowly, but is now admirable in many respects.

The same officers were re-elected, with the addition of an assistant secretary—Professor L. B. Judson.

NURSERYMEN AT JAMESTOWN.

Among the prominent nurserymen and florists who attended the Fruit Growers' and Horticultural meetings at Jamestown late in September, were Hon. Orlando Harrison, Berlin, Md.; C. G. Patten, Charles City, Iowa; C. L. Watrous, Des Moines, Iowa; C. M. Starke, Louisiana, Mo.; J. B. Wight, Cairo, Ga.; H. C. White, DeWitt, Ga.; J. C. Vaughan, Chicago, Ill.; F. R. Pierson, Tarrytown, N. Y., and W. T. Hood, Richmond, Va.

Mr. L. A. Berckmans of the P. J. Berckmans Co., Augusta, Georgia, recently visited Philadelphia, and the nurseries near by, then left for his home in Georgia. Mr. Berckmans has been spending several weeks on an automobile tour, through the New England states, and he has had a most enjoyable trip. He reports the prospects for Fall business in the south, as being particularly bright, and they are having an unusually heavy demand for the Dwarf Golden Chinese Arbor Vitæ, (Biota nana aurea), and several other hybrids of a similar character. This firm has introduced several forms of Chinese Arbor Vitæ, which have proven much more hardy in the north than the other types.

The Tulsa Nursery Company, Oklahoma, reports. The fruit crop in the new state of Oklahoma was never better than this year, consequently orders for trees are coming in rapidly, and the trade for Fall promises to be larger than ever before.

CATALOGUES RECEIVED.

The E. Y. Teas Co., Centerville, Ind. Wholesale price list, fall, 1907. A description of the American "Everblooming" Hydrangea, and a price list of peonies.

Easterly Nursery Co., Cleveland, Tenn. Wholesale price list, fall 1907.

T. S. Hubbard Co., grape vine specialists, Fredonia, N. Y. Wholesale price list, autumn, 1907.

Cedar Hill Nursery and Orchard Co., Winchester, Tenn. Wholesale price list.

Andorra Nurseries, Chestnut Hill, Pa. A calendar of hardy perennials for the old-fashioned garden.

The Automatic Pruner Co., Williamsport, Pa. A partial list of Gould's sprayers and fittings.

Doings of Societies.

INSTITUTE WORKERS.

The Twelfth Annual meeting of the American Association of Farmer's Institute Workers will be held in Washington in the National Hotel, October 23-25, 1907. President, E. A. Burnett, Lincoln, Neb.; Secretary, John Hamilton, Washington, D. C.

Among the speakers are: Hon. James Wilson, Secretary of the United States Department of Agriculture, Washington, D. C.; G. C. Creelman, President of the Ontario Agricultural College, Guelph, Ontario; E. A. Burnett, Director of the Agricultural Experiment Station, Lincoln, Neb. and L. R. Taft, Superintendent of Farmer's Institutes of Michigan, Agricultural College, Michigan.

Committees will report on the following subjects: Institute Organization and Methods—F. H. Rankin, Urbana, Ill., Chairman; A. M. Soule, Athens, Ga.; James Murray, Regina, Saskatchewan, Canada.

Institute Lecturers—W. C. Latta, Lafayette, Ind., Chairman; Geo. McKerrow, Madison, Wis.; T. L. Calvert, Columbus, Ohio.

Co-operation with Other Educational Agencies—Kenyon L. Butterfield, Amherst, Mass., Chairman; Hubert Vreeland, Frankfort, Ky.; Tait Butler, Raleigh, N. C.

Movable Schools of Agriculture—G. C. Creelman, Guelph, Ontario, Chairman; A. L. Martin, Harrisburg, Pa.; F. E. Dawley, Fayetteville, N. Y.

Boys' and Girls' Institutes—L. R. Taft, Agricultural College, Michigan, Chairman; H. T. French, Moscow, Idaho; J. W. Carson, College Station, Texas.

Woman's Institutes—Miss Maddock, Guelph, Can.

One Session will discuss the Farmers' Institute with relation to:

1. The Traveling Library; its place in Institute work; the best method of conducting and maintaining. By F. H. Rankin, Urbana, Ill. Discussion by C. B. Galbraith, Columbus, Ohio.

2. The Field Institute; its value; method of organizing and conducting. By J. L. Ellsworth, Boston, Mass. Discussion by F. E. Dawley, Fayetteville, N. Y.

3. Monthly Meetings; form of organization for holding; character of; where to hold. By C. A. McNabb, Guthrie, Okla. Discussion by Andrew Elliott, Galt, Ontario.

4. Field Demonstration Work; should it be undertaken; should it be co-operative; what subjects should be selected? Form of organization necessary. By C. A. Zavitz, Guelph, Ontario. Discussion by T. F. Hunt, State College, Pennsylvania.

5. Introducing Courses of Study in Agriculture into the Institute; what the course should embrace; best method in organization and conducting. By D. J. Crosby, Washington, D. C. Discussion by Alva Agee, State College, Pennsylvania.

6. The Woman Lecturer; What should be her qualifications and training? By Mrs. Mary A. Wallace, Ellwood City, Pa. Discussion by Miss Mary E. Lee, Westerville, Ohio.

7. The Annual Report; its importance and character; methods for securing facts for its preparation; necessity for accuracy; promptness in issuing. By A. C. True, Washington, D. C. Discussion by G. A. Putnam, Toronto, Canada.

AN ORCHARD FIELD MEETING.

An important orchard meeting by the Bureau of Farmers' Institutes of New York and the State Experiment Station was held in the Auchter orchard at Spencerport, N. Y., on September 6.

The Auchter apple orchard is used in an experiment carried on by the New York Agricultural Experiment Station to show the comparative values of sod mulch and cultivation in the management of trees. The chief object of the demonstration institute was to discuss this experiment. The orchard comprises 10 acres, the trees are all Baldwins 30 years of age and so well grown as to make it one of the finest plantations of this variety in the State. The orchard has many points of interest beside the experiment and these were touched upon in the discussions.

The following programme was carried out:

10:30 a. m. Commercial Apple Growing—T. B. Wilson, Halls Corners; Experimental Station Field Work—Director W. H. Jordan, New York Agricultural Experiment Station; Soil Moisture and Dust Mulch—Prof. K. C. Davis, Dean of School of Agriculture, St. Lawrence University, Canton, N. Y.

2:00 p. m. The Experiment in the Auchter Orchard—U. P. Hedrick, New York Agricultural Experiment Station; Insects of the Auchter Orchard—P. J. Parrott, New York Agricultural Experiment Station; Diseases of the Auchter Orchard—F. C. Stewart, New York Agricultural Experiment Station.

SOCIETY FOR HORTICULTURAL SCIENCE.

Programme of the Fifth Annual Meeting held in connection with the Meeting of the American Pomological Society at the Jamestown Exposition, September 24, 25 and 26, 1907:

The Relation of the Adams' Fund to Horticulture—L. H. Bailey, Cornell University; Importance of Bud Variations and Mutations in the Development of Citrus Varieties—Herbert J. Webber, Cornell University; Originating New Fruits—G. B. Brackett, U. S. Pomologist, Washington, D. C.; The Origin and Improvement of Some Horticultural Varieties in Ohio—W. R. Lazenby, Columbus, Ohio; Mendelian Characters in Tomatoes—U. P. Hedrick and N. O. Booth, New York State Experiment Station; Mendell's Law Applied in Tomato Breeding—A. G. Craig, Pullman, Washington; On Methods of Breeding for Disease Resistance—W. A. Orton, U. S. Department of Agriculture; The Plan and Side Issues—C. S. Crandall, Urbana, Illinois; Plant Breeding as a University Course—John Craig, Cornell University; Seasonal Influence in Carnation Crossing Relative to Seed Production—William Stuart, Burlington, Vermont; The Technique of Hybridizing the Potato—E. M. East, New Haven, Connecticut; Experiments in Strawberry Breeding—S. W. Fletcher, Agricultural College, Michigan; Breeding to Overcome the "Little Peach" Disease—L. R. Taft, Agricultural College, Michigan; Variations in Swayzie Apple Seedlings—W. T. Macoun, Ottawa, Canada; Xenia in Apples—C. P. Close, College Park, Maryland.

Officers for 1908: President, W. A. Taylor; Vice-Presidents, L. H. Bailey, G. B. Brackett, T. V. Munson; Secretary-Treasurer, C. P. Clove; Assistant Secretary, U. P. Hedrick; Executive Committee: W. A. Taylor, President, ex-officio; W. R. Lazenby, Chairman; W. M. Munson, W. L. Howard, John Craig.

CONFERENCE ON PLANT HARDINESS AND ACCLIMATIZATION.

UNDER AUSPICES HORTICULTURAL SOCIETY OF NEW YORK.

PROGRAM.

Tuesday, October 1, 10 o'clock A. M.—(Rooms of the American Institute, 19 21 West 44th Street.) Organization of the Conference. Address by the President of the Horticultural Society of New York. Reading of papers: 10:30 A. M.–12 M., and 2–5 P. M.

Wednesday, October 2.—Excursion.

Thursday, October 3, 10 o'clock A. M.—(New York Botanical Garden, Bronx Park.) Meetings for the reading of papers in Museum Building: 10 A. M.–12 M., and 2–5 P. M.

LIST OF PAPERS.

The following partial list of titles which were presented serve to indicate the general scope of the subjects that the conference covered.

It is planned to publish in one volume a complete report of the proceedings, which should be an important contribution to the literature of horticultural research.

The Determining Factors in the Seasonable Activity of Plants.—D. T. MacDougal, Tucson, Ariz.

Factors that Control Acclimatization.—Henry C. Cowles, University of Chicago, Ill.

Evaporation as a Climatic Factor Influencing Vegetation.—B. L. Livingston, Tucson, Ariz.

Air Drainage as Affecting Hardiness of Plants.—Ernst A. Bessey, Subtropical Laboratory, Miami, Fla.

The Real Factors in Acclimatization.—Frederic E. Clements, University of Nebraska.

Plant Improvements Needed in Specific Cases.—W. M. Hays, Assistant Secretary of Agriculture.

Comparative Hardiness of Plants of the same variety from Northern and Southern Points.—J. C. Whitten, Missouri.

Observations on Eucalyptus Hybrids; The Japanese Loquat in Algeria; Truth to Seed of Eastern and African Varieties at Vitis vinifera.—M. Robert, Algeria.

Temperate Zone Plants in the Tropics.—D. W. May, Porto Rico.

Acclimatization of Economic and other Plants in the West Indies.—D. Morris, Imperial Dept. of Agriculture in the West Indies.

Coöperative Testing to Ascertain Hardiness in Fruits.—H. L. Hutt, Guelph, Canada.

Resistance to Cold, Heat, Wet, Drought, Soil, etc., in Grapes.—T. V. Munson, Texas.

Developing Hardy Fruits for the North Mississippi Valley.—Samuel B. Green, Ohio.

Hardiness of the Peach.—U. P. Hedrick, Geneva, N. Y.

Hardiness of Apples.—O. M. Morris, Oklahoma.

Fruits and Trees in the Northwest.—W. S. Thornber, Washington.

Hardiness and Acclimatization of Alfalfa.—B. C. Buffum, Wyoming.

Some Work with Timothy and Awnless Brome Grasses.—S. Fraser, Geneseo, N. Y.

Hardiness of Ornamental Plants in the Middle Northwest.—Anthony U. Morrell, Minnesota.

Studies on the Acclimatization of Plants in the Prairie Regions.—L. H. Pammel, Iowa.

Observations in the Region at the Head of Lake Michigan.—Jens Jensen, Chicago, Ill.

Experiments in Plant Acclimatization in Alaska.—Walker H. Evans, U. S. Dept. of Agriculture.

Fifteen Years Experience in Southern California.—D. F. Franceschi, Santa Barbara, Cal.

Some Experiences with Field Crops in Virginia.—Andrew J. Soule, Blacksburg, Va.

Observations on Hardiness of Plants Cultivated at the New York Botanical Garden.—Geo. V. Nash, New York Botanical Garden.

Some Anomalous Observations in St. Louis.—W. Trelease, Missouri Botanical Garden, St. Louis, Mo.

Problems of Hawaii.—J. E. Higgins, Hawaii.

LEONARD BARRON, Secretary.

PRESIDENT, JAMES WOOD.

Note and Comment.

FORESTRY IN IOWA.

Mr. H. P. Baker, Professor of Forestry at the Iowa State College, has resigned to accept a similar position at the Pennsylvania Agricultural College. He leaves at once in order to get his work in hand for the fall semester which opens at the Pennsylvania Institution the latter part of September.

Professor Baker was the first instructor to take up forestry work at Ames and has occupied the position of Professor of Forestry since the department was established in 1904. His work has been unusually successful. A number of his gradnates have passed the civil service examination for positions in the United States Forest Service in competition with the graduates of the Yale Forest School and other leading institutions.

Professor Baker says he likes the spirit of the West and greatly regrets to sever his connections with the work at Ames, but feels that the large forestry interests in Pennsylvania offer a wider field for labor. The new position also means an increase in salary of from $1,800 to $2,500 per year to start with and a liberal appropriation for forestry investigations.

STATE AID FOR ILLINOIS FLORISTS.

The Illinois legislature has appropriated the sum of $7,500 for the erection of greenhouses at the State Agricultural College. These houses will be devoted to research and experimental work bearing upon the problems which confront the florist. This is a notable advance and the florists of the state are to be congratulated. It is understood that the bill was backed by the florists.

HYBRIDIZING THE PECAN.

BY E. E. RISIEN, SAN SABA, TEXAS.

To make my subject plainer, I will use for an illustration, corn, because the pollenation of it and the pecan is very similar. Most of us know that if an ear of corn is covered with a paper sack in time to keep off the pollen from the surrounding tassels, the result will be a naked cob. Just so it is with the pecan. If a bunch of nuts is effectually protected from the surrounding pollen, empty shells or shriveled kernels result; generally the nuts drop off. In every case defective pollenation will show itself in some form or other.

I am now regretting very much that I delayed so long giving my attention to artificial fertilizing of the pecan blossoms, because I already have fruited the work of my own hands and have learned also that the pollen is the prepotent factor, hence the importance of the character of the tree from which we get the pollen. To the accustomed eye, it is no job at all to locate the tree that our seedling trees are pollenized from, if growing within a few hundred yards; so pronounced is the prepotency of the pollen. Pecan pollen from the top of our old sky scrapers is doubtless wafted for miles in the wind storms of spring time when it can be seen coming down to pollenize the younger growth like fine sand. The yield from this source is immense, and as the fruit is almost always inferior.

The collecting of the pollen being the first step, I will here explain that it is necessary to watch this very close, because, when ripe, the cells holding it pop open very much like popcorn; so when this popping commences is the time to gather the pollen. This is done by pulling off the whole catkins. Then spread them out evenly on a newspaper in the sun for a few hours. All the pollen you can use will be found in the form of yellow flour on the paper. To clean this I use a fine brass wire milk strainer, a new one; be sure it is clean. Having thus procured good sound pollen, I put it into bottles, pill bottles I find the handiest, they are so easily carried in the vest pocket, cork up and keep in a cool, dry place and I believe its vitality can be counted on for a month any way.

[It is very likely to heat if kept in closely corked vials. The preliminary drying should be very thorough.—ED.]

So presuming it is the season of the year that the two varieties in which the cross is to be made, the next thing is to get some 10-lb. paper sacks, and just as soon as the bunch of nuts is in sight strip off all the catkins (or tassels) on the small limb to be used, then put this fruit-bearing spur, leaves and all into the sack, pinning or tying it close around the stem. Selecting small, upright fruit-spurs, in a week or so the pistillate blossoms of the nuts should show open mouths. These are plainly seen, which indicates they are receptive. The pollen now on hand should be applied with a feather or small brush commonly used for water colors, although I prefer a medicine dropper, a small glass tube having a rubber bulb on the end. Any drug store keeps them for sale at five or ten cents each. From this the pollen goes out in the form of dust which readily adheres to the already prepared pistillate blossoms. The paper sack should at once be replaced for a few days longer, or until the blossoms change color, when it should then be removed entirely to stop retarding any further growth of the leaves so enveloped. It is needless to say that a bunch of nuts thus treated should be plainly labeled, and a further precaution is necessary to save a cluster of nuts so as to protect it from squirrels, etc. I clasp on them a corn popper, fastening it with a piece of wire.

Several years ago, I secured from California some pollen from the best known English walnuts there. This I applied to my variety known as the San Saba, with the hope of getting a cross. I have quite a number of these seedlings so treated growing, but, as yet, it is too soon to report results. I hope those who have the English walnut growing will experiment in this line. A true hybrid of this sort would have more than a cash value. I am frequently asked to explain such quick and severe deterioration that has developed. My diagnosis of the case is that in order for the nuts to be fertile, there must of necessity be a fertilizer—so the question arises, what were they fertilized with? Ninety-nine chances to one hundred the tree that bore the fruit was surrounded by any amount of worthless ones, so how then could any thing else be expected? This is another proof that the pollen from the neighboring trees is the prepotent factor; but we will reverse this order of things and select nuts from the most worthless one surrounded by better varieties, plant these, and when old enough to sample the fruit, a large percentage will be improved, another proof that the surrounding pollen is the prepotent factor. There is evidently a limit to deterioration, but we have no proof there is any limit for improvement. Each locality in the wide range of which the pecan is capable of growing has its influence also either for the better or for the worse.

Obituary.

N. H. ALBAUGH.

On Saturday evening, August 31st, 1907, N. H. Albaugh died at his home, Phoneton, Ohio, in his seventy-third year. He was ill but four days, and although he had been in failing health for the past year, his death comes as a surprise to many. The funeral services were held Tuesday afternoon, September 3d, from his late home, and were private.

In his death, horticultural and nursery circles have lost one of their prominent members.

Mr. Albaugh was one of the oldest members of the American Association of Nurserymen. He rarely missed a meeting, and always took an active part in the discussions. He was a ready speaker, possessed of a considerable fund of humor. As a business man he was active and progressive. For a number of years he has been largely interested in commercial peach orcharding in Georgia. As a citizen he took an intelligent part in civic and State affairs, and at different times represented his county at the State capitol.

Those who saw him at Detroit, recognized signs of failing health, but did not dream of such a rapid collapse.

JOSEPH PERRY TAYLOR.

Joseph Perry Taylor, a pioneer nurseryman of Oklahoma, died at his home in Shawnee, Okla., August 8th, aged 67 years. He was founder of the first nursery in Oklahoma, was vice-president of the Oklahoma Association of Nurserymen for many years, and one of the proprietors of Shawnee Nurseries.

CHANGE IN BUSINESS.

The nursery business of Rakestraw & Pyle has been succeeded by The Rakestraw-Pyle Company, the change taking place on the first of July, 1907. The new company propose to conduct the business on the same general line as the firm they are succeeding, and hope to merit a continuance of the generous patronage that has been given to their predecessors. Yours very truly,

THE RAKESTRAW-PYLE COMPANY.

NURSERY COMPANY'S NEW CELLAR.

RICE BROTHERS HAVE AMPLE STORAGE ROOM, LIGHTED WITH ELECTRICITY.

The Rice Brothers Nursery Company, of Geneva, N. Y., has just completed the erection of a new concrete storage cellar. The new cellar is 70 by 110 feet and gives the company additional storage room for 200,000 trees. The sheds of the company now total 174 by 124 feet and give storage for 300,000 trees.

All of the packing and shipping of the company is now done under cover. The trees are protected from the time they are dug until they are placed in the boxes and shipped. The sheds are equipped with electric lights and various labor saving devices. In place of healing the trees and shrubs in, as was formerly done, the trees are kept in the sheds and placed on long racks as needed.

They are taken from these racks and billed and boxed. The firm this fall will ship about 450 boxes of trees to all parts of the country, and will store for next spring's shipment about 100,000 apples, 30,000 plums, 25,000 cherries and 156,000 peaches, all of their own growing in addition to between sixty and sixty-five thousand roses, shrubs and ornamental stock.—*Geneva Daily Times.*

Business Movements.

The Tyler Bros.' Nursery Company formerly of Du Bois, Pa., moved some time ago to Heyburn, Idaho, where they are now established and making plans for a substantial growth of business.

W. F. Knapp, of Monroe, Mich., is a dealer in General Nursery Stock. "A business that is satisfactory to both me and my customers, after 38 years in the same territory, is the history of my business." W. F. Knapp, successor to Geo. H. Lewis, Monroe, Mich.

JAMESTOWN EXPOSITION NOTES.

J. G. Harrison & Sons of Berlin installed an extensive exhibit early in August. This was placed in charge of Master G. Hale Harrison, the 12 year old son of Hon. Orlando Harrison.

A circular letter announces the fact that the Peters Nursery Company, of Troy, Ohio, have temporarily placed their affairs in the hands of a receiver for the benefit of their creditors.

A VISITOR FROM THE FAR WEST.

Mr. W. W. Robbinson, of the McKinney Nursery Company, of McKinney, Texas, while on a combined pleasure and business trip to Niagara Falls, Buffalo, Rochester, and New York City, called upon Mr. M. B. Fox of the Rochester Lithograph Company, also the business manager of the NATIONAL NURSERYMAN, who took great delight in showing him the sights of the Flower City by gas light, and warned him of the danger of going to the great and wicked city of New York.

On his way homeward, Mr. Robbinson visited Washington, and the Jamestown Exposition.

A REMARKABLE SEASON.

EDITOR NATIONAL NURSERYMAN:

Gentlemen:—During the twenty years we have been growing nursery stock, none has been so favorable as this for weather conditions. We started budding apple June 3rd, and have been budding continually since (Sunday excepted), and to day we are completing our work with the re-budding of apple, pear, plum, cherry and peach. We hope to complete by October 1st, at which time our fall shipments start. Trees made an early growth and apple will be in good shape for early digging. Demand good and prices better.

Berlin, Md. J. G. HARRISON & SONS.

NUT NOTES.

The timber value of the hickory, walnut and chestnut should be a sufficient warrant for the planting of these trees by farmers.

The Santa Ana Walnut Growers' Association marketed last season over a million pounds of nuts, receiving $108,000 for the crop.

In this day of prepared foods increasing and deserved attention is being given to all edible nuts as ingredients for such preparations.

This is a great country with great diversity of soil and climate, but each section has one or more species of nut trees adapted to the local conditions.

Since the organization of the National Nut Growers' Association in 1901, a rapid development in the nut industry has taken place in Southern territory, where the pecan finds its most congenial surroundings.

There is a great difference between the ordinary Texas pecan, as seen in the market, and the large, thin-shelled, plump, finely-flavored nuts of the selected varieties now being propagated for commercial planting by budding and grafting.

The sixth annual convention of the National Nut Growers' Association was held at the Jamestown Exposition, September 26-28. This meeting followed that of the American Pomological Society, which closed on the morning of the 26.

The hickory, walnut and chestnut trees on the old farm belong to the cherished memory list with many city people. No agency is more potent with farm children, in giving them contentment with rural life, than these same nut trees.

SUMMARY OF LAWS

GOVERNING INSPECTION, CERTIFICATION AND SHIPMENT OF NURSERY STOCK.

The following compilation of the various State laws affecting nurserymen has been made by the Inspection Division of the New York State Department of Agriculture, Charles A. Wieting, Commissioner.

ALABAMA.—A signed copy of inspection certificate must be filed with the Secretary of the Alabama State Board of Horticulture, Auburn, Ala. Accompanying the certificate must be sufficient money to pay for the necessary Alabama tags. A tag must be attached to every package of nursery stock delivered in the State. Tags are furnished at the following cost prices: First one hundred (100), 65 cents postpaid; two hundred (200), $1.00 postpaid; five hundred (500), $1.60; one thousand (1000), $2.20, sent collect by express. Nurserymen must attach one of their own certificates as well as an Alabama certificate to each bundle of nursery stock. Mr. R. S. Mackintosh, State Horticulturist, Auburn, Ala.

ARIZONA.—There is no law relative to the inspection, fumigation or shipment of nursery stock. Prof. R. H. Forbes, Director, Agricultural Experiment Station, Tucson, Ariz.

ARKANSAS.—Shipments of nursery stock into the State must be accompanied by a certificate of inspection and bear the name and address of consignee and consignor, otherwise the transportation company must notify the consignor and not deliver the shipments until a certificate is furnished. (Laws of 1903.) Mr. C. F. Adams, Entomologist and State Inspector, Fayetteville, Ark.

CALIFORNIA.—Shipments of nursery stock into California are held by the transportation companies until inspected by county horticultural inspectors. All packages must be marked with the name and address of the shipper, name of the consignor, and name of the place where the stock is grown. All nursery stock infested with pests not existing in California will be immediately sent out of the State or destroyed at the option of the owner and at his expense. Peach, apricot, and almond trees coming from districts where yellows and rosette are known to exist, shall be refused entry and shall be destroyed or returned to the shipper. Notices of shipment of nursery stock to California should be sent to the county inspector at point of destination, or to Mr. Edward M. Ehrhorn, Deputy Commissioner of Horticulture, Ferry Building, San Francisco, Cal.

COLORADO.—Shipments into any county of the State having a horticultural inspector shall have attached to each box, package or parcel a label, showing the name of the owner, agent or shipper, the name of the grower, and any further evidence necessary to determine the locality where grown. Nursery stock arriving in the State is subject to inspection under the direction of the State Board of Horticulture. (Laws 1899.) Martha A. Shute, Secretary, Denver, Colo.

CONNECTICUT.—Certification and treatment of nursery stock is discretionary with the State Entomologist. Shipments of nursery stock into the State shall bear a statement that it has been thoroughly fumigated in addition to the certificate of inspection issued by a State or Government officer. (Chapter 338, Laws of 1903.) Dr. W. E. Britton, State Entomologist, New Haven, Conn.

DELAWARE.—Shipments of nursery stock into the State must bear certificate of inspection and also certificate stating that the stock has been properly fumigated. All nursery stock not accompanied by proper certificates may be held by the transportation companies until it can be inspected. Mr. Wesley Webb, Secretary State Board of Agriculture, Dover, Del.

FLORIDA.—Nonresidents, persons or corporations, who sell nursery stock in Florida, must pay a license tax of $25.00 per annum to the Collector of Revenue of the county in which the nursery stock is to be sold, and obtain from the county judge a license to do business. This is understood to mean that canvassers or peddlers for nursery stock, if nonresidents, must secure a license in each county of the State, but there is no interfering with the shipment of stock into Florida. There is no law governing the inspection of nursery stock, but Florida nurserymen secure certificates from Mr. E. W. Berger, Entomologist, Agricultural Experiment Station, Gainesville, Fla

GEORGIA.—Nurseries are inspected annually. A signed duplicate of inspection certificate, together with a signed statement by the nurserymen that all stock intended for Georgia will be fumigated in accordance with directions furnished them, must be filed in the office of the State Entomologist. Official tags of the Georgia State Board of Entomology will be furnished by the State Entomologist at the following price: One hundred tags, 60 cents postpaid; 200 tags, 85 cents postpaid; 300 tags, $1.10 postpaid; 500 tags, $1.35, sent by express collect; 1,000 tags, $2.00, sent by express collect. Each shipment of nursery stock into the State of Georgia must bear the official tag of the Georgia State Board of Entomology, and also a duplicate certificate of inspection of the State from which the shipment is made. (Regulations adopted January 26, 1906.) Mr. R. I. Smith, State Entomologist, Atlanta, Ga.

IDAHO.—No person, firm or corporation shall import or sell nursery stock without first applying to the State Board of Horticultural Inspectors and filing a bond in the sum of $1,000. No nursery stock can be delivered or disposed of in the State without its first having been properly fumigated, and shipments into the State should bear a copy of an official certificate of fumigation emanating from the place where the stock was grown. All shipments into the State must bear a label showing the name of the shipper, the locality where grown and variety of nursery stock. Intending shippers into the State should notify Mr. J. R. Field, State Horticultural Inspector, Boise, Idaho.

ILLINOIS.—State nurseries are inspected and certified not later than October 1st. An inspection certificate shall be valid for one year from date of inspection. The State Entomologist is authorized to revoke a certificate if he finds it is being used in violation of the law. He is also required to furnish all Illinois nurserymen with a list of State and Government inspectors whose certificates may be received as equally valid as his own, and the nurseryman receiving stock under such certificates is authorized to substitute for them the Illinois certificate of inspection. Each dealer in nursery stock who has no nursery of his own, and each agent for a nursery located outside of Illinois, is required to furnish to the State Entomologist annually a sworn statement, showing that the stock in which he deals has been duly inspected and to submit for approval a copy of the certificate of inspection. Nursery stock shipped into the State must bear a certificate of inspection attached to each car, box, bale,

bundle or package. (Laws of 1907.) Dr. S. A. Forbes, State Entomologist. J. A. West, Chief Horticultural Inspector, Urbana, Ill.

INDIANA.—All nurseries are inspected not earlier than June 1, and not later than October 1, each year. Certificates are furnished by State Entomologist. Nursery stock shipped into the State shall be plainly labeled with the name of the consignor and name of the consignee, and a certificate signed by a State or Government inspector showing that the contents have been examined. (Laws of 1907.) Mr. Benjamin W. Douglass, State Entomologist, State House, Indianapolis, Ind.

IOWA.—State nurseries are inspected as owners request, or if supposed to be infested with dangerous, injurious insects or plant disease, and nurserymen are prohibited from selling or shipping without the inspection. Shipments into the State must be accompanied by a certificate of apparent freedom from dangerous, injurious insects or plant diseases, signed by an inspector duly approved by the State Entomologist of Iowa. H. E. Summers, State Entomologist, Ames, Iowa.

KANSAS.—Nurseries are inspected annually between June 15th and November 1st. Certificates are valid until the 1st day of the following June. No nursery stock shall be brought into the State nor offered for sale within the State without having been previously properly inspected. (Laws of 1907.) State Entomological Commission, Topeka, Kansas. Prof. E. A. Popenoe, Entomologist, Manhattan, Kans. Prof. S. J. Hunter, Lawrence, Kans.

KENTUCKY.—Nurseries are inspected annually. Every package of nursery stock shipped into the State must have a copy of a certificate of inspection attached and bear on the label a list of the contents. Duplicate certificates of inspection may be filed with the State Entomologist. (Laws of 1897.) Prof. H. Garman, State Entomologist, Lexington, Ky.

LOUISIANA.—Nursery stock delivered within the State must be labeled with an official certificate of inspection. Shipments not so labeled shall be liable to confiscation. The entomologist has power to require anyone in the State to fumigate trees and plants if deemed necessary. (Laws of 1904.) Mr. Wilmon Newell, Secretary, State Crop Pest Commission, Baton Rouge, La.

MAINE.—Nurseries within the State are inspected annually. All shipments of nursery stock into the State must bear a certificate of inspection or any box or package bearing a certificate of fumigation which shall be an affidavit made before a Justice of the Peace that all stock sold by the consignor has been fumigated in a manner approved by the State Nursery Inspector of the State from which said nursery stock is shipped, the same may be accepted as though bearing a proper certificate of inspection. (Laws of 1907.) Hon. A. W. Gilman, Commissioner of Agriculture, Augusta, Me. Mr. E. A. Hitchings, State Entomologist, Augusta, Maine.

MARYLAND.—Nurseries inspected at least once in six months. All nursery stock subject to attack of insect pests must be fumigated. Shipments into the State must be labeled with the name of consignor and consignee, and each package bear a certificate of inspection. Duplicate certificates should be filed with the State Entomologist. (Chapter 289, Laws of 1898.) Prof. T. B. Symons, State Entomologist. Prof. J. B. S. Norton, State Pathologist, College Park, Md.

MASSACHUSETTS.—Nurseries are inspected once each year and certificates are issued by the State Nursery Inspector. No nursery stock shall be sold in the State unless the owners hold an unexpired certificate of inspection, unless however, all stock sold shall be fumigated with hydrocyanic acid gas in the prescribed manner, or who shall treat the stock which they sell by some other method approved by the State Nursery Inspector, and who shall make affidavit before a Justice of the Peace that all stock sold by them has been fumigated or treated, and who shall attach a copy of such affidavit to each package, box or car of stock sold, shall be exempt from the requirement of holding a certificate of inspection. All nursery stock shipped into the State shall bear a certificate of inspection or a copy of an affidavit of fumigation which meets the requirements of fumigation above specified. (Laws of 1907.) Dr. H. T. Fernald, State Nursery Inspector, Amherst, Mass.

MICHIGAN.—Nurseries are subject to inspection; infested trees must be destroyed, and the remainder of the stock within a half mile must be fumigated. Shipments into the State must bear on every package, plainly labeled, the name of the consignor and consignee, statement of contents, and a certificate showing that the contents have been inspected by a State or Government officer, and if of species subject to the attacks of San José scale must be fumigated with hydrocyanic acid gas, and certificates of fumigation must also be attached, together with a certificate of inspection. This applies to individual orders when several are contained in the same shipment. All nurserymen, whether residents of Michigan or other States, who wish to grow or sell stock within the State, must apply to the State Inspector of Nurseries on or before August 1st of each year for a license, for which the fee is $5.00, and a bond for $1,000 must be filed. A license will not be granted until a State or Government inspection certificate has been filed. (Laws of 1905.) Prof. L. R. Taft, State Inspector of Nurseries and Orchards, Agricultural College, Mich.

MINNESOTA.—There is an annual inspection of all nurseries from which stock is shipped out of the State. Shipments into the State must be accompanied by a certificate of inspection. Carrying companies accepting packages of nursery stock without a certificate of inspection are liable. (Laws 1903.) Prof. F. L. Washburn, State Entomologist, St. Anthony Park, Minn.

MISSISSIPPI.—No law relative to inspection of nursery stock. Shipments of stock from the State are inspected by Mr. Glenn W. Herrick, Professor of Biology, Agricultural College, Miss.

MISSOURI.—Nurseries inspected annually. Every package of nursery stock shipped into the State shall be plainly labeled on the outside with the name and address of the consignor and name and address of the consignee, the contents, and a certificate showing that the contents have been inspected by a State Experiment Station Entomologist of the State from which the shipment was made, that the nursery stock is free from San José scale, peach yellows, rosette or other dangerously injurious insects or diseases. Transportation companies are forbidden to deliver nursery stock unless accompanied by a certificate. Prof. J. M. Stedman, Entomologist, University of Missouri, Columbia, Missouri.

MONTANA.—All stock brought into the State must be unpacked, inspected and fumigated at one of the designated quarantine stations, viz.: Miles City, Billings, Dillon, Missoula, Kalispell, Great Falls, Troy, Plains, Glasgow or Thompson Falls. Nursery stock may be inspected and fumigated at other points of delivery on payment of all cost. To sell or deliver nursery stock it is necessary to first obtain a license by paying a fee of $25.00 and by filing with the Secretary of the State Board of Horticulture a bond in the sum of $1,000 annually. Notice of shipment including an invoice of stock, should be sent to the Secretary of the Board, Mr. Jos. W. Wallisch, Secretary State Board of Horticulture, Hibour Block, Butte, Mont.

NEBRASKA.—No inspection law, but certificate of inspection should accompany shipments into the State. Nurseries are inspected by Prof. Lawrence Bruner, The University of Nebraska, Lincoln, Neb.

NEVADA.—Nurseries and shipments of nursery stock are subject to the inspection of a county horticultural commissioner. (Chapter 66, Laws of 1903.) Mr. J. E. Stubbs, President Nevada State University, Reno, Nev.

NEW HAMPSHIRE.—Nurseries are inspected at least once each year. Shipments into the State must be accompanied by a certificate of inspection or in lieu thereof, an affidavit showing that the stock has been fumigated with hydrocyanic acid gas, using not less than 2-10 of one gram of cyanide of potassium per cubic foot of space, in an air tight compartment for not less than forty minutes. A copy of the certificate of inspection, or a copy of the affidavit must be attached to each car, box or package shipped into the State. (Law of March 4, 1903.) Prof. E. D. Sanderson, State Nursery Inspector, Durham, N. H.

NEW JERSEY.—The law requires the inspection of all nurseries at least once in each year. Shipments into the State must be accompanied by a certificate of inspection, or copy thereof, attached to each car or parcel, together with a statement from the shipper that the stock therein is a part of the stock inspected and whether such stock has been fumigated with hydrocyanic acid gas or not. If stock comes into the State without a certificate it may be detained for examination, wherever found, by the State Entomologist, and if found to be infested with any insects injurious or liable to become so, will be destroyed. (Chapter 249, Laws of 1903.) Dr. John B. Smith, State Entomologist, New Brunswick, N. J.

NEW MEXICO.—No law relative to transportation of nursery stock. The Territorial Legislature of 1903 provided for County Boards of Horticultural Commissioners, who were given authority to control orchard pests. Mr. Fabian Garcia, Horticulturist, Agricultural Experiment Station, Agricultural College, New Mexico.

NEW YORK.—The State is divided into districts and an inspector of this Department is in charge of each. The nurseries are under the constant care of the inspectors, who are available for inspection of nursery stock in the nursery and on the packing ground throughout the year. During the shipping season it is the duty of the Department to cause an inspection of all shipments from points outside the State. All trees infested with San José scale or other injurious insects, and all trees and plants infected with fungus diseases, crown gall or galls on the roots, must be destroyed. Nursery stock shipped in from other States must be fumigated with hydrocyanic acid gas before planting, selling or distributing, and all stock dug for sale growing within one-half mile of a section infested with San José scale must be fumigated before delivery or shipment.

The Commissioner of Agriculture may exempt from fumigation herbaceous plants, conifers, bulbs, and tubers. Florists, greenhouse plants, flowers and cuttings are also exempt from fumigation, but this does not mean rose bushes or other stock that may distribute injurious pests. Certificates issued by this Department will be dated September 1, 1907, and will be valid until September 1, 1908. No certificate will be granted on a final inspection made earlier than July 1, 1907, and the most important inspection work will be done after August first, and continue throughout the year wherever it is found necessary to do so.

Vineyardists who make a business of selling cuttings, and small fruit growers who do no general nursery business, will receive a special certificate of inspection. This is found necessary, as transportation companies class cuttings as nursery stock and require copies of inspection certificates.

Duplicate certificates of inspection will be furnished by the Department for filing in the offices in the States requiring them, as follows: Alabama, Georgia, Illinois, Kentucky, Maryland, Michigan, North Carolina, Oklahoma, South Carolina, South Dakota, Tennessee, Utah, Virginia and Wyoming. A list of the names and addresses of nurserymen who received certificates of this Department for the year ending September 1, 1906, will be furnished upon application to this office.

All shipments of nursery stock to points within the State, or to other destination, must have attached to each car, box or bale a copy of a certificate of inspection, dated September 1, 1907. No stock shall be shipped under the certificate of inspection issued by this Department unless it came from nurseries duly inspected by the Department, or unless the stock was recently purchased and received under a recognized certificate of inspection or fumigation.

NORTH CAROLINA.—Every shipment of nursery stock into the State must be accompanied by a valid copy of a certificate of inspection. Any shipment not accompanied by such a certificate is liable to be destroyed without compensation. Every person, firm or corporation outside of the State who desires to do business within the State of North Carolina is required to file with the Entomologist a copy of the certificate of inspection, which shall be valid for the ensuing season. It is no longer required that nurserymen outside of the State shall secure tags from the Entomologist before shipping into the State, but a copy of certificate of an official inspector of the State where the nursery is located must be filed. It is suggested that it will be of advantage to the nurserymen, if they can furnish a guarantee that their stock has been fumigated, and a copy of such fumigation guarantee should be attached to each shipment. (Rules under the Laws of 1897.) Mr. Franklin Sherman, Jr., Entomologist, North Carolina Crop Pest Commission, Raleigh, N. C.

NORTH DAKOTA.—No law. Prof. C. B. Waldron, Horticulturist, Agricultural College, N. D.

OHIO.—Nurseries are inspected each year, and certificates are issued which are valid for one year. Provision is made for the official certification of fumigation of nursery stock. Nursery stock shipped into the State must be labeled on the outside with the names of the consignor and consignee, and be accompanied by an official certification of inspection or fumigation. Agents and dealers who sell stock within the State must file a sworn statement as to the source from which said stock was obtained, and that it has been officially inspected. Mr. C. W. Mally, Chief Inspector, Department of Agriculture, Columbus, Ohio.

OKLAHOMA.—Foreign nurseries must request their State Inspector to make report of inspection of their stock to the Secretary on blanks with which they have been provided and obtain a permit before doing business in the State. Agents are required to carry a duplicate of the permit of their principals and a letter from said principals stating that they are duly authorized to act as agents. Shipments must be accompanied with an official certificate of inspection (tag) certified to over fac-simile signature of the Secretary of the Oklahoma Board of Agriculture, obtainable only through his office. (Act of 1905.) Mr. C. A. McNabb, Secretary, Board of Agriculture, Guthrie, Okla.

OREGON.—The State Board of Horticulture has charge of inspection within the State, which is divided into districts. All nursery stock brought into the State must be inspected upon its arrival at the quarantine station in the district of final destination. Trees budded on peach roots, raised or grown in a district where peach yellows exist are prohibited sale or distribution within the State. Any kind of trees infested with insects or infected with diseases not found in Oregon, are prohibited from sale or distribution in the State. All nursery stock may be disinfected by dipping in a solution of three-quarters of a pound of whale-oil soap to each gallon of water. The solution shall be kept at a temperature of 100 degrees to 150 degrees. All nursery stock offered for sale within the State shall be dipped in the standard solution of lime, sulphur, and salt by the consignor of the same, on or before delivery to the consignee. (Regulations of 1906.) Mr. H. M. Williamson, Secretary, Oregon State Board of Horticulture, Portland, Oregon.

PENNSYLVANIA.—Shipments of nursery stock into the State must be plainly labeled on the outside with the name of the consignor and consignee, and a certificate showing that the contents have been inspected and that the stock (excepting conifers and herbaceous plants) therein contained have been properly fumigated. Dealers in nursery stock are furnished certificates under certain restrictions. Transportation companies are required

to reject all stock entering the State unless a certificate of inspection and fumigation are attached. Prof. H. A. Surface, Economic Entomologist; Mr. Enos B. Engle, Inspector, Harrisburg, Pa.

RHODE ISLAND. — The State Board of Agriculture appoints a State Nursery Inspector, whose duties shall be to inspect nurseries and grant an annual certificate. Owners of nurseries who shall fumigate all stock sold by them may make affidavit to the fact and attach a copy to each package shipped in lieu of a certificate of inspection. All nursery stock shipped into the State shall bear on each package a certificate that the contents have been inspected by an authorized inspecting officer. In case nursery stock is brought within the State without such a certificate the consignee shall return it to the consignor, provided, however, that any package or box bearing a certificate of fumigation, which meets the requirements, may be accepted as though bearing a certificate of inspection. (Chap. 1159, Laws of 1904.) Mr. A. E. Stene, State Nursery Inspector, Kingston, R. I.

SOUTH CAROLINA.—Nurseries must be inspected annually, and it is unlawful to sell or ship without a certificate. All persons outside the State must register a copy of their certificate of inspection, furnished by the authorized official of the State in which he resides, with the chairman of the board of entomology, which copy shall state that in addition to inspection the nursery stock has been fumigated under the direction of the official issuing the certificate. Upon the filing of the proper certificate as prescribed any person outside the State dealing in nursery stock will receive official tags, one of which must be placed, together with a copy of his certificate of inspection, on each consignment of stock entering the State. (Circular 1, August, 1903.) Mr. Charles E. Chambliss, State Entomologist, Clemson College, South Carolina.

SOUTH DAKOTA.—Any person, firm or corporation which desires to sell nursery stock, directly or indirectly, by traveling or local agents, salesmen or representatives, within the State, shall first secure a permit from the Board of Agriculture, authorizing them to do business in the State. The Board of Agriculture requires a certificate of inspection, and all persons, firms or corporations, operating in the State must give a continuing bond in the sum of $5,000. Any person who, acting as an agent or solicitor, sells or offers to sell nursery stock for any person, firm or corporation, shall be required to carry a letter or certificate from his principal, stating that he is authorized to represent such principal, and that the guarantee is made that any contract entered into by him as agent will be fulfilled if accepted by said principal. It shall be unlawful to misrepresent nursery stock which is offered for sale, or to state where the same was propagated, or deliver nursery stock which is untrue to name or lacking in hardiness. Any violations of the provisions of the act are subject to a fine and the forfeit of the permit which gives a right to do business in the State. The Board of Agriculture shall collect as a fee for issuing a permit to nurseries to do business in the State the sum of ten dollars annually, and a fee for each agent's duplicate of said permit, the further sum of $2.50 annually. (Law in effect July 1, 1907.) Application for a permit must be addressed to Charles N. McIllvaine, Secretary, State Board of Agriculture, Huron, S. D. Nurseries in the State are inspected annually, and copies of certificate must accompany all shipments in the State. Dr. Oliver, State Entomologist, Brookings, S. D.

TENNESSEE.—Nurseries inspected annually. Certificates are issued not later than November 1, which become void after August 1st of the following year, and duplicate certificates of inspection must be filed with the Secretary of the State Board of Entomology, Knoxville, Tenn. A copy of a certificate must be attached to each package shipped into the State. All nursery stock shipped or delivered within the State must be fumigated before delivery. Mr. H. A. Morgan, Secretary, State Board of Entomology, Knoxville, Tenn.

TEXAS.—All nursery stock brought into the State must be accompanied by a certificate from the consignor that it has been fumigated. Every package shall be labeled with the name of the consignor, the name of the consignee, the contents, and in addition to the certificate of fumigation, by a certificate that the contents have been inspected by a State or Government officer, and that the nursery stock therein contained appears to be free from all injurious insects and diseases. Hon. R. T. Milner, Commissioner of Agriculture, Austin, Tex.

UTAH.—Any person, firm or corporation, selling nursery stock within the State must first obtain a license from the State Board of Horticulture. Five dollars for any annual business below $1,000; $10.00 for any annual business over $1,000, and under $3,000; $25.00 for any annual business over $3,000, and under $10,000; $50.00 for any annual business over $10,000, and by filing with the Secretary of the Board a bond in the sum of $5,000 conditioned that the principal will comply with the law and pay the cost of fumigating nursery stock imported or sold within the State, and the expense of destruction of any infected stock. Licenses are granted for one year. Shipments of nursery stock (except conifers and delicate ornamental plants) into the State must be accompanied by a certificate of fumigation or disinfection by hydrocyanic acid gas before shipment. It shall be the duty of persons, firms or corporations to provide their salesmen or agents with a certificate of the State Board of Horticulture, stating the name of such agent and name and address of the firm they represent, together with the license number of such firm; to attach a copy of the certificate of inspection to each delivery of trees into the State; to file with the Secretary of the State Board of Horticulture a statement of their annual business, when making application for license, and when printed copies of certificates of fumigation are used, they shall file with the Secretary of the State Board of Horticulture a duplicate (not a copy) of the original certificate. (Rules, April 10, 1907.) Mr. J. Edward Taylor, Secretary, State Board of Horticulture, Chamber of Commerce, Salt Lake City, Utah.

VERMONT.—The Governor is authorized to use such means as in his judgment are necessary to exterminate San José scale, and the gypsy moth and brown-tail moth whenever and wherever they appear in the State. (Laws of 1906.) If nuserymen ask for it, inspection will be done by Mr. Wm. Stuart, Horticulturist, Agricultural Experiment Station, Burlington, Vt.

VIRGINIA.—Nurseries are inspected at least once each year. It is unlawful for any person to sell or deliver any nursery stock, unless he shall first procure from the Auditor of Public Accounts, Richmond, Va., a certificate of registration, which certificate shall contain such rules and regulations concerning the sale of nursery stock as the Board of Crop Pest Commissioners may prescribe. Registration fee is $20.00 for principals, with duplicates for agents free. Duplicate certificates of nursery inspection must be filed with the State Entomologist, and stock entering the State must be accompanied by an official tag, which may be obtained of the State Entomologist, at the cost of printing, after the duplicate has been filed. (Laws of 1903.) Mr. J. L. Phillips, State Entomologist, Blacksburg, Va.

WASHINGTON.—No person, firm or corporation shall engage or continue in the business of selling as agent, solicitor, or otherwise, within the State, or importing nursery stock without first having obtained a license. Application therefor must be made to the Commissioner of Horticulture, together with a satisfactory bond of $1,000; each bond must be renewed every second year. Such bond shall be conditioned that the principal or his agents will obey the provisions of the law, and that said principal will pay the cost of disinfection or destruction of all infested nursery stock and fruit into the State by said principal or his agents. The license fee for nurserymen and tree dealers shall be $5.00, and for other agents or salesmen $2.50. All

licenses expire two years from date of issue unless renewed upon the same terms originally provided for. Every person licensed to do business in the State must notify the Commissioner of Horticulture of his intention of shipping nursery stock, giving the names and addresses of the persons, firms or corporations to whom they are sold. Such notice shall contain the name and address of both consignor and consignee, an invoice of the goods to be shipped and point from which they are to be delivered. A copy of such notice shall also be sent to the county horticultural inspector of the county in which the point of destination is located. For full information, address Mr. F. A. Huntley, Commissioner of Horticulture, Tacoma, Washington.

WEST VIRGINIA.—Nurseries are inspected and certified once each year. Certificates are valid for one year from the 15th of each September. No person shall deliver any nursery stock consigned to points in the State from points without the State, unless at least ten days before the time of delivery a notice in writing is given to the Director of the West Virginia Experiment Station, Morgantown, W. Va., of the number of trees in such consignment, and the place from whence such trees were shipped, and the destination of the same, and said Director may cause the inspection, fumigation or destruction of the said stock if found infested with San José scale or any other infectious disease. (Laws of 1907.) Every person who employs traveling salesmen for the sale of nursery stock shall take out a license in some county of the State for which he shall pay a fee of $10.00 per annum. Every such principal shall file with the clerk of the county a list of all agents or salesmen. (Laws of 1905.) Mr. J. B. Garvin, Secretary, Board of Agriculture, Charleston, W. Va.; Prof. J. H. Stewart, Director, Agricultural Experiment Station, Morgantown, W. Va.

WISCONSIN.—The director of the Agricultural Experiment Station of University of Wisconsin is authorized to inspect, through his agent, any trees or other nursery stock. He may also issue a certificate of inspection. Whenever nursery stock is shipped into the State, a certificate of inspection must be attached to the outside of each package, box or car. Any person receiving stock without such certificate shall be subject to a penalty or forfeiture. (Laws of 1907.) W. A. Henry, Director, Agricultural Experiment Station, University of Wisconsin, Madison, Wis. Prof. J. G. Moore, Horticulturist.

WYOMING.—Any person or firm wishing to do business in this State must first obtain a license. Licenses are issued on application for a period terminating on July 1 of the next succeeding inspection year (approximately two years). All applications must be accompanied by the license fee ($25.00), a bond in the sum of five hundred dollars ($500.00) conditioned that the principal will faithfully obey the law of the State of Wyoming, and by a certified certificate of inspection from an authorized inspector in the State from which shipments are to be made. On receipt of these, the Secretary of the State Board issues authorized shipping tags (at cost). Nursery stock may not enter the State and transportation companies may not deliver unless such tag be attached to each and every box, bundle or bale. The presence of the shipping tag shall be taken as prima facie evidence of inspection, and no further inspection is required, though the Board reserved the right to reinspect if for any cause it may deem it wise to do so. Notice before shipment should be made to, and a circular of information obtained from, Mr. Aven Nelson, Secretary, State Board of Horticulture, Laramie, Wyo.

CANADA. Within the Province of Ontario all nursery stock, except greenhouse plants, herbaceous perennials, herbaceous plants, conifers, bulbs and tubers, must be fumigated before shipment.

Shipments into Canada must be addressed so as to enter Canada at one of the named ports of entry, where the stock will be unpacked and fumigated by the authorities.

The fumigation seasons for the various stations are as follows: Vancouver, B. C., October 1st to May 1st; Winnipeg, Man., March 15th to May 15th, and October 7th to December 7th; Windsor, Ont., March 15th to May 15th, and September 26th to December 7th; Niagara Falls, Ont., March 15th to May 15th, and September 26th to December 7th; St. Johns, Que., March 15th to May 15th, and September 26th to December 7th; St. John, N. B., March 15th to May 15th, and October 7th to December 7th. (Regulations, 1905.) Dr. James Fletcher, Dominion Entomologist, Central Experimental Farm, Ottawa, Canada.

DIPPING NURSERY STOCK.

In a recent bulletin issued by the American Horticultural Distributing Co., Martinsburg W. Va., on the subject of "Dipping vs. Fumigation," are several quotations from prominent horticulturists.

"The North Mountain Orchard Co., of Martinsburg, W. Va., with 10,000 apple trees, E. C. Henshaw, manager, says that he will positively not plant fumigated trees, that his experience with dipping the

Dipping Nursery Stock.

bodies in 1906 was so satisfactory that he had his plantings of 1907 dipped body and root, with the result that all scale and aphis were destroyed and there was less loss of trees and they are making a finer growth than the trees of his neighbors which were fumigated."

"The Tonolonay Orchard Co., of Hancock, Md., with 42,000 apple trees, E. P. Cohill, president and manager, say they will never plant another fumigated tree."

"Mr. S. F. Wallbridge, Bellville, Ont.: Dipping trees I believe far preferable to fumigation. If the experts at the experiment farm consider it just as effective it should be at once adopted in lieu of fumigation."

"Mr. A. N. Brown, of Wyoming, Del., one of the earliest advocates of dipping nursery stock and who has made careful observation, says that for five years he has dipped his stock before planting. He has also dipped and given instructions for dipping for many large planters in a number of states. In no case has there been any injury reported, but on the other hand the most satisfactory results have been obtained."

EDITOR VISITS INDIANA NURSERIES.

The editor of the NATIONAL NURSERYMAN indulged in a hasty excursion as far west as Illinois and thence southward to Florida during the latter part of September. His route took him through Indianapolis where he was able to make a small side trip by trolley to Bridgeport for the purpose of looking in upon C. M. Hobbs & Sons, proprietors of the Bridgeport Nurseries—formerly Albertson & Hobbs. He found Mr. C. M. Hobbs and his son Harry at home, and greatly enjoyed a stroll through their extensive blocks of ornamental and fruit trees. He was much inspired by the quantity and high quality of the stock grown and the excellent facilities for handling it safely and expeditiously. The firm is now composed of Mr. Hobbs senior and his two sons, both energetic, well trained young college men. Mr. Albertson is enjoying a term of well earned rest since his retirement, although the management of his 250 acre farm in the outside fruit interests make considerable demands upon his time.

The firm now starts upon a new epoch in its life's work and we wish the members of the company fullest success.

Miss Mills of the Yokohama Nursery Co. has just returned from a two weeks' vacation in the picturesque country near Montreal, Que., and as a vacation ground she thinks it ideal.

W. E. Marshall & Co., another firm of retailers, report fall business as exceptionally good.

THE NATIONAL NURSERYMAN:

Rochester, N. Y.

Gentlemen:—Please find enclosed $1.00 for my subscription to your paper for another year.

I cannot run the nursery business without your paper. Do not ever think of dropping my name off your list.

Yours truly,

T. D. BUCHANAN.

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For EARLY ORDERS get special prices on many varieties of

APPLE TREES,
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STANDARD PEARS,
DWARF PEARS,
PLUMS,
PEACHES, ROSES, etc.

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Sensible, Useful Gifts for the Holidays
ATTRACTIVELY PACKED IN HANDSOME SINGLE PAIR BOXES
They contain more and better rubber than any other make. have gold-gilt non-rusting metal parts and strong cord ends that cannot wear through. The new back free action permits ease and comfort no matter what position the body may assume.
They outwear three ordinary kinds, which means three times the service of usual 50 cent sorts.
The Most Comfortable Suspender Made for Man, Youth or Boy
In Light, Heavy or Extra Heavy Weights, Extra Long (No Extra Cost)
They make inexpensive gifts every man, youth or boy will gladly receive
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Our useful BULL DOG SUSPENDER COMB AND CASE mailed for 10c. postage. Instructive booklet, "Style, or How to Dress Correctly," free if you mention this publication

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SURPLUS LIST OF TECUMSEH NURSERIES.

In order to clean up the land, we will quote a close price on the following stock for fall:

2500 Catalpa Speciosa, 5 to 15 ft., fine stock.
800 Silver Maple, 6 to 8 ft.
50 Pin Oaks, 6 to 8 ft.
50 Laurel-Leaved Willows, 6 to 8 ft.
50 Gold Bark Willows, 6 to 8 ft.
25 Liquid Amber, 8 ft.
100 Scotch Elms, 6 to 7 ft.
500 Car. Poplars, 2 yr., 6 to 8 ft.
1500 Norway Spruce, 18 inch to 4 ft.
300 Am. Arbor Vitæ, 15 to 18 inch.
50 White Spruce, 2 to 2½ ft.
300 Cal. Privet, 3 to 4 ft., fine.
50 Viburnum Opulous, 4 to 5 ft.
25 Purple Fringe, 5 to 6 ft.
40 Purple Leaved Barberry, 4 ft.
20 Eng. Elms, 2½ inch, Cal. 10 to 12 ft.
15 Purple Leaved Beech, 8 to to 10 ft., heavy, stocky trees.

This Stock is all Clean and Well Grown.

Will make very low prices on the large Catalpa and Norway Spruce.

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CEDARVILLE, OHIO.

CLIMBING ROSES.

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Get my prices.

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Are you fattening San José Scale for Spring Killing? Your trees may die and save you the trouble. Don't delay—apply the spray that kills 'em; that is absolutely guaranteed to kill San José Scale, Cottony Maple Scale, and all soft bodied sucking insects. "SCALECIDE" does it; cheaply, quickly, thoroughly. No harm to horses, harness, hands or clothing. Miles ahead of Lime-Sulphur or any home-made mixture. It costs less to buy "SCALECIDE" set down in your own dooryard than you can mix any dope yourself, because it will go twice as far with one-third the work.

"SCALECIDE" is a 92 per cent. oil compound and positively contains more oil and less water than any preparation ever discovered. We can prove it, no matter what any manufacturer may claim. We fearlessly challenge any person to show our claim above untrue.

ORDER A BARREL NOW

It is simple to prepare and apply. No constant stirring. Simply fill your spray tank with water from the most convenient well or spring. Add one gallon of "SCALECIDE" to every 15 or 20 gallons of water. Start your agitator and you are ready for work. Our special free Booklet B will tell you the whole story. Write for it now. 50 gallon barrel at your station, if east of the Mississippi and north of the Ohio River for $25 cash; will make 800 or 1000 gallons of spray. Order a barrel to-day. Smaller quantities if you wish.

B. G. PRATT COMPANY, Manufacturing Chemists, 11 Broadway, New York City.

PRATT'S "SCALECIDE" SOLUBLE PETROLEUM.

Everything in

Small Fruit Plants.

Ask for price list.

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VIBURNUM PLICATUM

BERBERRY THUNBERGII.
HYDRANGEA PAN. GRAND.
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and other shrubbery. Send for list and prices.

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1200 varieties of Ornamental Trees and Shrubs, 1 to 3 years old.
1600 varieties of New and Old Ornamental Trees and Shrubs in all sizes.
250 varieties of Climbing Plants.
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MANUFACTURERS OF PLANISHED SHEET STEEL.

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Grower and Exporter of Fruit-Tree Stocks, Forest Tree Seedlings, Rose Stocks, Shrubs, Vines and Conifers for Nursery Planting.

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The most complete assortment of Ornamental Stocks, Trees and Shrubs.

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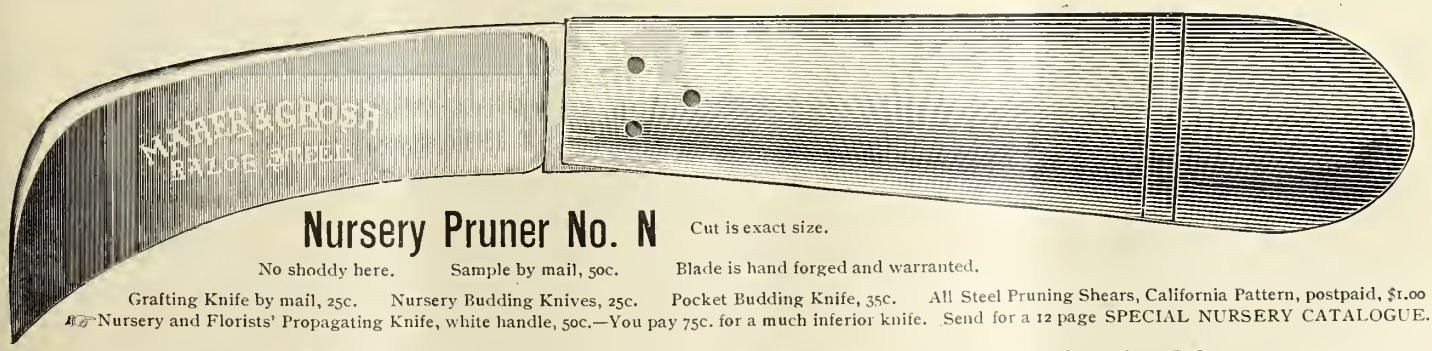
Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.



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of Magnolias in the following varieties: SOULANGEANA, HALLEANA, CONSPICUA and LENNEII, also MAGNOLIA ACUMINATA seedling. one and two year.

Heavy on Cut leaf Weeping Birch in the different sizes from 4 to 12 feet.

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Surplus Stock, Spring 1907.

10,000 Peach, 1 year, 2 to 3 feet,
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1,000,000 Strawberry Plants.

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Can also furnish a few of the leading varieties.

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Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

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Summer Grown, Winter Rested—Nature's Way.

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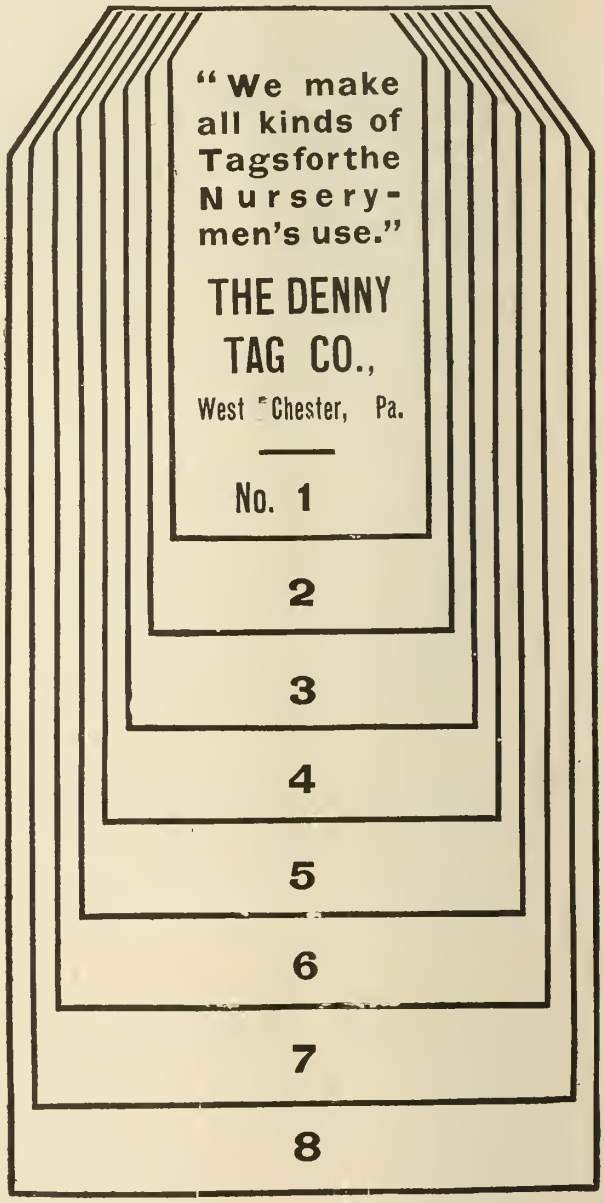

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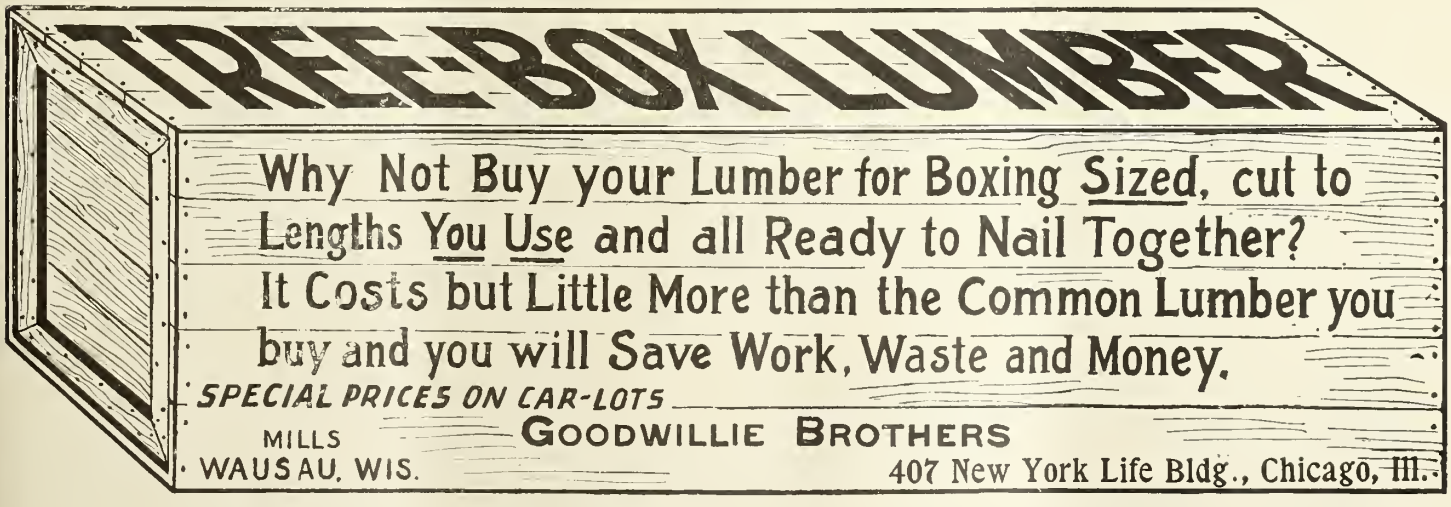
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Varieties in greatest quantity, Moore's Early, Concord and Niagara Other varieties in limited quantity.

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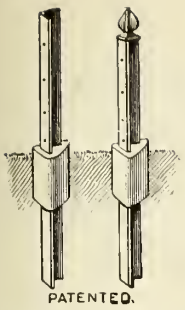

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Large growers of Pæonies, 290 named Varieties
Hardy Shrubs and Ornamentals Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

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OFFER FOR FALL 1907,

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APPLE SCIONS FOR DELIVERY after Nov. 15th.

WRITE FOR PRICES.

We also offer a large stock of APPLE, ARBORVITAE in variety, EVERGREENS, SHRUBS, Deciduous Ornamental Trees, PEONIES, etc.

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A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multillora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

The Largest Stock of *For Fall, 1907*
CURRANTS and
GOOSEBERRIES,
Standards,

Worked on strong and straight Ribes aureum stems, you find in

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HONEY LOCUST AND OSAGE SEEDLINGS
by the 1000 or car lots.

Send us a list of your wants and *don't buy* until you have our prices.

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(800,000 1 and 2 years.)

Asparagus Roots

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2,000,000 Black Locust Seedlings

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Also R. Mulberry and Osage.

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KIEFFER STANDARD PEARS,
CALIFORNIA PRIVET—Fine Plants,
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NURSERYMEN.

Ussy, Calvados, France.

A general assortment of Fruit Trees Stocks, Forest Trees, Resinous Plants, Ornamental Shrubs and Evergreen, Roses and Conifers.

CATALOGUE FREE. VERY GOOD PACKING.

WRITE DIRECT, I HAVE NO AGENTS.

When writing to Advertisers mention The National Nurseryman.

FALL BULBS and PLANTS

for indoor or outside planting.

All the best and most popular kinds sold by nurserymen everywhere.

WHOLESALE PRICES TO NURSERYMEN.

Send for our wholesale catalogue.

We have a very attractive proposition which we can make to nurserymen who handle bulbs. Send us a list of varieties in which you are interested stating the approximate amounts you use and let us give you detailed information about our

SPECIAL PLAN FOR NURSERYMEN.

Write to-day.

JAMES VICK'S SONS,

ROCHESTER, N. Y.

KNOX NURSERIES

CHERRY TREES from Indiana.

PECAN TREES, Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
Vincennes, Indiana.

Write Us for Prices on Apple, Cherry, Peach, Pear, Plum, etc. Over 1,000,000 Trees

Send Us a List of Your Wants and We will make You Special Prices on the Whole.

Nurseries at Carrollton and Jerseyville, Ill.

JOHN A. CANNEDY N. & O. CO., Carrollton, Ill.

"Red Star" Raffia is different.

Raffia is an uncertain commodity. That is why dealers will not guarantee the quality. The waste is **your** loss. With "Red Star" brand **we** take chances on the uncertainty. Our faith in it is best shown by our guarantee to replace any that proves inferior. Send for free samples and if you do not buy "Red Star" in the future we miss our guess.

Myrobolan Plum & Mahaleb Cherry Seed

Crop a partial failure and harvest is uncertain. Write us **now** if you desire any. To delay may mean a disappointment.

Thomas Meehan & Sons, Box T, Dreshertown, Pa.

When writing to Advertisers mention The National Nurseryman.

ESTABLISHED 1870.

My Specialties for Fall, 1907.

Std. Apple, 2 year fine stock in carload lots.

100,000 Early Harvest B.B. root cuttings, fine plants.

General Line of Nursery Stock at lowest prices.

Baled Excelsior will be delivered to Western Nurserymen at low rates.
Send Want List for my Special Prices.

PARSONS WHOLESALE NURSERIES,
E. P. BERNARDIN, Prop. PARSONS, KANSAS.

Forest Tree Seedlings.

We are now booking orders for the following forest tree seedlings. all of our own growing, well graded, in sizes given below Write us for quotations by the thousand, or in car lots. Our prices are right; so is our stock

BLACK LOCUST,	sizes 8 12 in	**CATALPA SPECIOSA,**	sizes 8-12 in.
	12-18 "		12-18 "
	18-24 "		18-24 "
	2 3 ft.	**RUSSIAN MULBERRY,**	sizes 6-8 "
	3-4 "		8-12 "
HONEY LOCUST,	sizes 4 8 in.		12 18 "
	8-12 "	**OSAGE ORANGE,**	sizes 4 8 "
	12 15 "		8-12 "
BOX ELDER,	sizes 4 8 "		12-18 "
	8-10 "		18 24 "
	10 15 "	**BLACK WALNUT,**	sizes 12-18 "
	15-24 "		18 24 "

GERMAN NURSERIES,
CARL SONDEREGGER, Prop., BEATRICE, NEB.

Winfield Nursery Company

WILL BE IN THE MARKET
AS USUAL, WITH

Best Quality Mahaleb,
Black Locust,
Catalpa Speciosa,
and other Seedlings and
Fine Line of Budded Stocks.

WINFIELD NURSERY COMPANY,
Winfield, Kansas.

THE WILLIS NURSERIES AT OTTAWA, KANSAS, OFFERS FOR THE FALL OF 1907 AND SPRING OF 1908, A GENERAL ASSORTMENT OF CHOICE NURSERY STOCK INCLUDING A CHOICE LOT OF FOREST SEEDLINGS IN ALL GRADES; 500,000 BLACK LOCUST, 200,000 CATALPA, ASH, BOX ELDER AND MULBERRIES, 10,000 PRIVET AND A CHOICE ASSORTMENT OF SHRUBS, ROSES ETC.

WRITE FOR PRICES.

A. WILLIS, Ottawa, Kans.

Established 1874. Capital and Surplus $100,000.00

In the Heart of the Great Southwest

Our long growing season gives wonderful development, our Shipping season great advantages.

Largest and best assorted stock in the South.

Teas Weeping Mulberry, Bungeii Catalpa, Roses, etc. in large supply and best values.

Our Trade List on application. Orders booked now for Fall or Spring delivery. Car lots a specialty.

Address, Texas Nursery Company,
SHERMAN, TEXAS.

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

Viburnum Plicatum

We have a large stock of this valuable shrub in all sizes.

Pin and Red Oaks

Of all sizes from four to sixteen feet.

We offer one of the largest collections of Ornamental Stock in the country.

Japan Plums

All varieties, largely of Abundance and Burbank.

SEND US YOUR LIST OF WANTS.

HOOPES, BRO. & THOMAS COMPANY,

WEST CHESTER, PENNA.

Philadelphia Office,
220, 222, 224 Stephen Girard Building.

Established 1853.

R. DOUGLAS' SONS

WAUKEGAN NURSERIES

WAUKEGAN, ILLINOIS.

EVERGREEN SEEDLINGS
IN LARGE QUANTITIES.

EVERGREENS
FOREST TREES

Largest Stock in America, including Colorado Blue Spruce and Douglas Spruce of Colorado.

RARE-HARDY-BEAUTIFUL

Also Ornamental and Shade Trees, Shrubs etc.

Grafted Pecan Trees

THE NUT NURSERY CO.

R. C. Simpson, Mgr., MONTICELLO, FLA.

GIUSEPPE SADA,

SEED MERCHANT,
MILAN, ITALY.

Exporter of European Forest Trees, Shrubs and Fruit Trees, Seeds.
Specialties: BLACK AND HONEY LOCUST, MULBERRY, MYROBOLANS.

Sole Agents for the United States and Canada,
JACKSON & PERKINS COMPANY, Newark, N. Y.
Correspondence Solicited.
Catalogue and Prices Free on Application.

PIERRE SEBIRE & SON,

NURSERIES AT USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, etc. Forest Trees, Ornamentals, Evergreen Seedlings, Roses, etc. The largest stock in the country. Prices very low. The very best grading and packing. Send for quotations before placing your orders elsewhere. Catalogue free.

Sole Agents for United States and Canada, C. C. ABEL & CO., 110=116 Broad Street, NEW YORK.

"ESTABLISHED 1859."

PEACH SEED

We have secured a few hundred bushels of Natural Virginia Seed of crop 1907, and with some Smock and Mixed we are able to supply a limited demand for same. Write us for samples and prices.

W. W. WITTMAN & CO.,
P. O. Box 451. BALTIMORE, MD.

Wanted

POSITION with reliable nurseryman in charge of sales department or general office work. Can handle the business from securing the salesman to collecting the accounts. Have handled agency business for two of the largest nurseries in the country. South or Southwest preferred.
Reference from those with whom I have worked.

Address, "X" care of NATIONAL NURSERYMAN.

CHOICE HIGH GRADE

CHERRIES

JAPAN PLUMS
IN ALL GRADES

McNARRY & GAINES,

XENIA STAR NURSERIES.

Office: DAYTON, O. *Nurseries:* XENIA, O.

PAINESVILLE NURSERIES

OFFER ONE OF THE LARGEST AND
MOST COMPLETE ASSORTMENTS OF

Nursery and Florists' Stock

in the United States, including Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines, and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

Field Grown Hardy Roses.

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

A Few of the Items We Have in Large Supply. **Special Prices on Early Orders.**

Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Capt. Hayward.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

53 Years. **1200 Acres.** **44 Greenhouses.**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO.

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue mailed **FREE** on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. **Rochester, N. Y.**

¶ As soon as the fall packing is over and the outside stock safely cellared, let's get together and figure on that order for spring.

¶ You're going to want some ROSES, probably; we've got 'em; Crimson Rambler, Dorothy Perkins, American Beauty, Baby Rambler, and a fine assortment of Hybrid Perpetuals on own-roots and budded; also Ramblers, Climbers and Mosses.

¶ You will find us headquarters, as usual, for CLEMATIS, Paniculata and Large-flowering, Ampelopsis Veitchii, Aristolochia Sipho, Phlox, Peonies, Dahlias, Berberis Thunbergii, Conifers, Shades, Shrubs, and Vines. Send list of wants for prices.

Jackson & Perkins
COMPANY

NURSERYMEN AND FLORISTS, Wholesale Only
NEWARK, WAYNE COUNTY, NEW YORK

The Geneva Nursery

Established in 1846.

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.
GENEVA, NEW YORK.

BIOTA AUREA NANA,

(Berckmans' Golden Arbor Vitae).
50,000 shapely plants of this popular conifer for fall delivery, from 10 inches to 3 feet.

ALTHÆA MEEHANII
(Hibiscus Syriacus)
(New variegated single flowering Althaea).

Field grown DOROTHY PERKINS, CRIMSON RAMBLER, and MARIE PAVIE Roses.
AZALEA INDICA, CAMELLIA, MAGNOLIA grfl.
WIER'S MAPLE, TEAS MULBERRY, TULIP POPLARS,
all first class.
Send for prices.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, :: AUGUSTA, GA.
Established 1856 Over 450 Acres in Nurseries

To the Sunny South
To the Breezy Northwest
To the Solid East—

the catalogues made by us are constantly going. The Glen Saint Mary Nurseries Company write: **"Everybody is delighted with the make-up of the catalogue;** it is superb, and will do the work it is intended for. It should escape the waste-basket."

As Mr. Taber has had twelve years to become acquainted with us, during which his business has grown and grown again, so that it has now been incorporated for perpetuation beyond the life of one man, he ought to know by this time what is good for him, and whether he gets from us the worth of his money. We feel somewhat proud of the cover of the 1908 catalogue, because it is another of the color triumphs.

A few days ago, a well-known seedsman, in placing his order for a catalogue with us against the usual "lowest-bid" man, wrote: "While we have prices on this job which are much below yours, yet we believe there may be as much difference in quality as in price; and, knowing that **we can depend upon you to do a strictly A1 job,** and that same will be gotten out promptly on time, we are going to place the order in your hands."

He also has tried it out for ten years. Why does he pay us more money than is demanded by the "just-as-good-as-McFarland" man? Why, indeed? Is he a philanthropist, or a clear-headed business man?

We get about all the solid old firms, eventually. A large catalogue is now in process for a renowned nursery firm, long held away because of the extremely low local prices given it. But, somehow, these keen business men noticed how the truly live and progressing nurserymen all used McFarland catalogues; therefore they came along, too, knowing that better work, costing more, would bring better trade, paying them more. Why not?

To January 15, we are completely loaded with orders, while running more machinery than ever and working all the good people we can get. Those who see the use of going after the best sales to the best people at the best prices are cordially invited to address the best printers—**us**—about catalogues to be done after January 15, 1908.

By the way, we have some superb new apple-branch photographs in our 10,000-and-over collection. Write, if interested.

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

HARRISBURG, PENNSYLVANIA

P. S. as usual.—Please note our platform: No stock catalogues, no wooden labels, no seed-bags, no hand-painted or machine-smeared colored plates. No competitive prices—don't write us if you are not after the best, to do the best selling and bring to you the best prices.

Another P. S.—**Note the usefulness of the McFarland Publicity Service** in preparing and placing advertising and in showing original selling schemes. The "Service" is making good. Note also our willingness to sell photographs or make engravings for those who don't care to come to Harrisburg for the whole thing. **This greatest collection in the world is open to all.**

COVER OF THE 1908 CATALOGUE JUST COMPLETED
FOR THE GLEN SAINT MARY NURSERIES COMPANY

BY J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG, PENNSYLVANIA

|OVER

Heikes'—Huntsville—Trees

HUNTSVILLE

Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest grower of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in Peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil. See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right. :: :: ::

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

Picea Pungens Glauca Kosteri

THE TRUE BLUE SPRUCE.

We have a fine collection of well-formed specimens, all grafted plants, from 12 inches to 6 feet high. Also handsome specimens of

WEEPING BLUE SPRUCE.

Choice **Evergreens,** in the finest varieties; **Japanese Maples; Hardy Herbaceous Plants,** including Japanese and German **Iris, Phlox, Larkspur,** etc.; **Dutch Bulbs,** such as **Hyacinths, Crocus, Tulips, Daffodils,** etc.; **Bay Trees,** and **Boxwood** in all sizes, also other decorative plants, **Palms, Dracenas Araucarias, etc.**

Prices and sizes upon application.

Ask for catalogue.

We are always pleased to receive visitors.

BOBBINK & ATKINS,
Nurserymen and Florists,
RUTHERFORD, N. J.

COMPARE

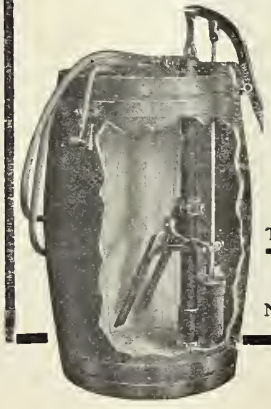
Goulds Sprayers

with others—notice the difference in weight, the seamless Brass Cylinders and large Air Chambers—the ease with which all working parts can be reached, and you will be convinced that they are superior to any.

Every Nurseryman and Florist

SHOULD HAVE A COPY OF OUR NEW BOOK

"How to Spray—When to Spray and What Sprayers to Use."



It contains many formulas for preparing spray mixtures—when to apply them—and describes our complete line of Hand and Power Sprayers. Sent free on application.

The Goulds Mfg. Co
Seneca Falls, N. Y.
New York, 16 Murray Street

One wing of the spacious storehouse of C. M. Hobbs & Sons, proprietors of the Bridgeport Nurseries, Indiana

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK

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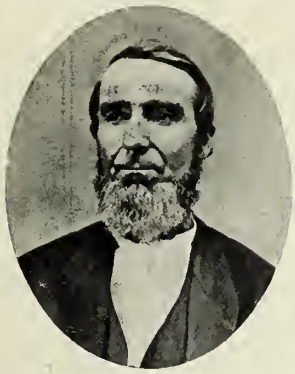
Vol. XV. ROCHESTER, N. Y., NOVEMBER, 1907. No. 11.

THE WHOLESALE NURSERIES OF C. M. HOBBS AND SON, BRIDGEPORT, INDIANA.

[Written and Illustrated Especially for The National Nurseryman]

This firm enjoys the distinction of being the successors of the oldest nursery in Indiana. For many years the firm was known throughout the country under the name of Albertson and Hobbs. It was founded by Mr. Oliver Albertson, father of Emery Albertson, so long and favorably connected with the American Association of Nurserymen. Mr. C. M. Hobbs, present senior member of the firm, whose ancestors hailed from North Carolina and were of English stock, became associated with Oliver Albertson about forty years ago. On the death of Oliver Albertson he was succeeded by his son Emery, and with him Mr. Hobbs maintained a partnership until a few months ago, when Mr. Albertson retired, and the firm was re-organized. In the reorganization Mr. Albertson was succeeded by Mr. C. M. Hobbs' two sons, Oliver and Harry. These young men enter the company equipped with excellent college and business training, with abundant energy, and a firm determination to succeed. The young men have already attended the national association meetings and will undoubtedly identify themselves with it more closely as time goes on. Mr. Hobbs is to be congratulated in having such able and worthy assistants within his own family.



OLIVER ALBERTSON
Founder of the Firm.

The nursery is located on the Pennsylvania railway, which maintains a siding adjacent to the packing house. It is about ten miles from Indianapolis, with which it is connected by a suburban trolley. Although the senior member and proprietor apologized to the writer for the lack of decorative planting surrounding the office by saying, "We have been too busy growing and handling stock to attend to the planting of our grounds," yet there was no real need for the remark, in that the serviceable office grounds are enclosed by a neatly pruned hedge, and the well clipped lawn is planted with attractive trees and shrubs. Exceptionally fine specimens of Weir's cutleaf and Schwedler maple were noted. The handsome weeping birch is also much at home on these grounds.

PACKING HOUSES.

The visitor is struck by the commodious and convenient character of the packing and store houses. These are well adapted to the requirements of the wholesale nurseryman. The interior arrangements possess special features which facilitate the handling and storing of stock. Among these is a special movable stanchion device, which enables the packers to move very readily and easily the partitions which divide the varying amounts of the different varieties; This is done by using strong adjustable division pieces set in a horizontal position in holes in the sills. The packing house is divided into the main storage compartment for tree fruits and large stock, a compartment for small fruits and herbaceous stock, and the general packing room. Connected with the packing house is the implement bulding, well stocked with spraying, cultivating, and other necessary nursery implements.

MR. C. M. HOBBS

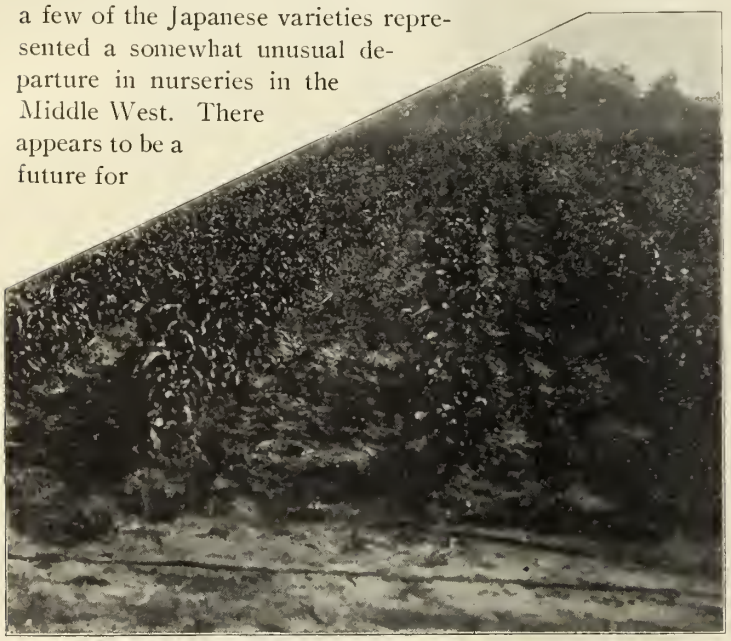
GROUNDS AND STOCK.

The grounds immediately adjoin the packing house and stretch out over a large area. The location being convenient to large cities, a fine farming region, and a thickly populated section, there is a strong demand for shade and ornamental trees. Making up the fine blocks of the latter are Norway maples, Schwedler maples, sycamore, catalpa, pin-oak, American elm, and other standard, as well as less well known, varieties of street and park trees. Large blocks of conifers were prominent features, and among these were noted especially fine specimens of the pyram-

idal arbor vitae, and other cultivated forms of biotas and junipers. Shrubs and herbaceous stock and ornamental grasses are grown in quantity. Among the shrubs fine masses of spiraea van Houtte, and Thunberg's barberry were noted.

FRUITS.

The visitor was particularly impressed by the splendid blocks of Kieffer and other pears, of peaches, and cherries. Other orchard fruits are also well represented. A block of persimmons grafted to the best native and a few of the Japanese varieties represented a somewhat unusual departure in nurseries in the Middle West. There appears to be a future for the cultivated forms of the native persimmon, and the firm has been interested in this line of work for some time. It is to be regretted that on the day of the visit a brisk wind interfered with field photography to such an extent as to make picture taking almost impossible.



A Block of Persimmons. C. M. Hobbs & Co.

The soil of the nursery is the typical deep loam characteristic of the region, a soil which builds strong trees with well developed root system. We feel justified in prophesying a successful business career for this strong and newly reorganized but old Indiana firm. We like to see the business of a firm descend from father to son. In this instance the outlook is bright, for the younger generation comes in not perforce or by habit, but by reason of an innate liking for the growing of plants. They come naturally by this taste for Mr. C. M. Hobbs has for many years taken a prominent place in the Horticultural councils of the State as president of the State Horticultural Society and lecturer on the staff of the Farmers' Institute.

Norway Maples carefully pruned. C. M. Hobbs & Co., Bridgeport, Ind.

The Apple Market

Latest mail and cable advices from the principal markets of Great Britain report a good demand for American and Canadian apples with prospects of a large demand for winter fruit as seen in arrivals. The fall fruit that has been shipped from this side has done well on the best and hardy varieties, but has been more or less unsatisfactory on soft qualities, which are not wanted and should never be shipped. Kings have sold exceptionally well, and for fine selected fruit returns are coming that give nets all the way from $3.50 to as high as $5.00. Gravensteins have also done well and sales have been made giving nets all the way from $3.00 to $4.00 on these. A few Baldwins that arrived out this week sold to give nets from $2.85 to $3.00, but the fruit was generally immature and not well colored. It looks as if there would be a good demand from the continent as well as from Great Britain, as the crop of apples in Europe this year is very light indeed. Some of my correspondents think that for fine high colored Baldwins there will be a large demand and they look for prices that are likely to give nets of $3.00 to $3.50. Growers that ship their apples off early and before danger of frost, are the ones likely to obtain best results. Most growers keep their apples too long before shipping and frequently have to suffer from being caught by frosty weather.

Yours truly,

GEO. A. COCHRANE,

Boston, Mass., Oct. 19, 1907. Apple Exporter.

National Nurseryman Pub. Co.:

Gentlemen: Enclosed herewith find my check for $1.00 to renew my subscription to your paper. I appreciate your effort to furnish a first class journal devoted exclusively to nurserymen and nursery interests and I have found it to be of inestimable value to me. With best wishes for the continued success of your paper, I beg to remain,

Very truly yours,

H. S. Galligan.

A fine lot of pears, note uniformity. C. M. Hobbs & Sons.

Peach stock strong and vigorous, more than waist high to Mr. Hobbs.

Albertson & Hobbs, Bridgeport, Ind.

EDITORIAL WANDERINGS—RETROSPECTIVE—MICHIGAN AGRICULTURAL CELEBRATION—VINCENNES NURSERYMEN.

The last week in May found the editor at the Capital City of Michigan a delegate to the semi-centennial celebration of the oldest land grant (agricultural) College in the United States. The Michigan Agricultural College does not represent the first effort of the kind in this country. Others were established previously, but they fell by the way. Michigan lived through troublous and trying periods and now proudly recalls the fact that for continuous existence it outranks all its fellows.

The meeting was a noted one and attracted a brilliant group of educators. President Roosevelt made one of the best speeches on agricultural education with a general discussion of rural conditions which it has been our privilege to listen to. He exhibited an insight into and a knowledge of affairs agricultural nothing short of marvelous. His advice to the graduating class was pointed and characteristic.

The trustees of the Agricultural College marked the occasion by conferring a number of honorary degrees. We were glad to note that H. W. Collingwood, editor of the RURAL NEW YORKER, an alumnus of the college, was among those whose services in the cause of agriculture were thus recognized.

Growing Conditions Backward.

Frost in the last days of May! Such was the fact in Michigan. Not any worse, however, than snow on June second in New York City! Where are we at anyhow? If summer is not prolonged growth will be scanty on nursery stock. Michigan nurserymen in common with their brethren over the country are longing for "growing weather." A run two or three hundred miles south discovered the season more advanced but relatively backward.

At Vincennes we were glad to look over the well known cherry producing nurseries of H. M. Simpson & Sons and W. C. Reed, whose properties adjoin and make a fine show in their present high state of cultivation on the rolling lands characteristic of the region. These two firms have earned an enviable reputation as cherry growers and it was an interesting and attractive panorama which, as the visitor stood at an elevated corner of these properties, was spread out before his eyes. At one sweep he could command a view of upwards of 800,000 one year old cherries representing a very satisfactory stand in the initial stage of tree making. Added to these were great blocks of Mahaleb cherries both American and European grown. There seemed to be practically no difference in the quality of this stock so far as caliper and height was concerned; but here and there indications pointed towards injury by faulty packing or handling. This condition was most marked in the American area. The Europeans are good packers. They have been in the business for a long time, and the necessities of the case have caused them to study the storing and shipping problems.

We noted on the Simpson place that members of the firm realize the value of low lands, and were expending a great deal of effort in draining and reclaiming. These depressions when drained and relieved of their surplus moisture will produce a fine grade of stock. In that region where land values are high the importance of utilizing every available foot of ground becomes apparent.

We noted signs of prosperity and growth in Mr. Reed's nursery, by extending areas and by the appearance of a fine residence in process of erection. Mr. Reed is building a home upon a beautiful site occupying a commanding view of the nursery and of the immediate neighborhood. In this important work he is being aided by Mrs. Reed, whose interests are as keenly alive to the necessity of decorating the grounds as they are to the convenient arrangement and embellishment of the interior.

The editor left this interesting region much impressed with the thought that specialties when wisely conducted were very important and satisfactory features of the great business of nursery growing.

CATALOGUES RECEIVED.

Andorra Nurseries, Chestnut Hill, Philadelphia, Pa. Price list of specimen trees, shrubs, roses, and fruit, fall, 1907. Also a list of roses and vines for late planting.

Thayer-Hovey Soap Co., Darby, Pa. "Takanap" for destroying scale, description and price.

Louis Leroy's Nurseries Co., Angers, France. Wholesale trade list, autumn 1907 and spring 1908, of conifers, ornamental trees, roses, etc. H. Frank Darrow, sole agent, 26 Barclay St., New York City.

Wm. C. Geraty Co., Young's Island, S. C. Catalogue No. 3, season of 1907-8. Cabbage and strawberry plants, fruit trees, grape vines, etc.

The Orange Judd Co., 439-441 Lafayette St., New York, Marquette Bldg., Chicago. Catalogue of new books pertaining to agricultural and rural life, spring and summer, 1907.

Harlan P. Kelsey, Salem, Mass. Wholesale price list, fall 1907, spring 1908, of Kelsey's rhododendrons, azaleas, and other hardy American plants.

The Benjamin Chase Co., Derry, N. H. Price list of wood labels, for nurserymen and florists.

Winfield Nursery Co., Winfield, Kansas. Wholesale trade list, fall 1907, for nurserymen only.

Morrisville Nurseries, Morrisville, Pa. Wholesale trade list, autumn of 1907.

United States Nursery Co., Rich, Miss. Advance list fall 1907, of roses, paeonies, Japanese iris, phlox, vines, etc.

Franken Bros., Sassenheim, Holland and Lake Forest, Illinois. Catalogue of Dutch hyacinths, bulbs and roots, season of 1907.

W. Fromow & Sons, Windlesham, Surrey, England. Trade catalogue, 1907-8, of American plants, coniferae, roses, fruit trees, etc.

Peter's Nursery Co., Knoxville, Tenn. "Peter's Plants," a well illustrated descriptive catalogue of conifers, shrubs, hedge plants, roses, etc., with prices.

Eastwood Nurseries, Gresham, Ore. Annual price list and catalogue, season 1907-8.

Home Nursery, Lafayette, Ill. Twentieth annual catalogue and price list. Illustrated.

United States Nursery Co., Rich, Miss. Catalogue for fall 1907 and spring 1908 of field grown roses, vines, deciduous shrubs, etc.

THE BEST PAPER FOR FAMILY READING.

The contents of THE YOUTH'S COMPANION are chosen with a view to the interest of all tastes and ages. The father, as well as the son, enjoys the tales of adventure; the mother renews her girlhood in the stories for girls, while the paper always abounds in stories, long and short, which may be read aloud in the most varied family group to the keen pleasure of all.

Full illustrated Announcement of THE COMPANION for 1908 will be sent to any address free with sample copies of the paper.

New subscribers who send $1.75 at once for 1908 will receive free all the remaining issues of 1907, besides the gift of THE COMPANION'S Four-leaf Hanging Calendar for 1908, in full color.

THE YOUTH'S COMPANION,

144 Berkeley Street, Boston, Mass.

"SHALL THIS ASSOCIATION ATTEMPT TO ESTABLISH STANDARD SIZES OR GRADES FOR FRUIT TREES?"

E. P. Bernardin.

This question should have but one answer, that of "Yes," but can we or will we get together on an equitable basis and make an attempt to do this, which all must acknowledge would be of inestimable value to all of us, is another proposition. A start in this direction was made last December by the Western Association of Nurserymen at their meeting held in Kansas City, where the following grades were established by them, viz.:

All trees shall be of fair shape, branched, well rooted. Caliper to govern and measurements taken two inches from the crown or bud, of the following grades:

Apple ¾ to 1 inch, 5 ft. and up.
Apple ⅝ to ¾ inch, 4 ft. and up.
Apple ½ to ⅝ inch, 3 ft. and up.
Apple ⅜ to ½ inch, 3 to 4 ft., whips included.
Cherry, 1 to 1¼ inch, 5 to 7 ft.
Cherry ¾ to 1 inch, 4½ ft. and up.
Cherry ⅝ to ¾ inch, 4 ft. and up.
Cherry ½ to ⅝ inch, 3 ft. and up.
Cherry ⅜ to ½ inch, 2½ ft. and up.
Plum 1 to 1¼ inch, 5 to 7 ft.
Plum ¾ to 1 inch, 5 ft. and up.
Plum ⅝to ¾ inch, 4 ft. and up.
Plum ½to ⅝ inch, 3 ft. and up.
Plum ⅜ to ½ inch, 3 ft. and up.
Peach ¾ to 1 inch, 5 to 7 ft.
Peach ⅝ to ¾ inch, 5 ft. and up.
Peach ½ to ⅝ inch, 4 ft. and up.
Peach ⅜ to ½ inch, 3 ft. and up.
Peach Under ⅜ inch, 2 ft. and up.
Standard Pear 1 to 1¼ inch, 5 to 7 ft.
Standard Pear ¾ to 8 inch, 5 ft. and up.
Standard Pear ⅝ to ¾ inch, 4 ft. and up.
Standard Pear ½ to ⅝ inch, 3½ ft. and up.
Standard Pear ⅜ to ½ inch, 3 ft. and up.
Dwarf Pear ¾ to 1 inch, 3½ ft. and up.
Dwarf Pear ⅝ to ¾ inch, 3 ft. and up.
Dwarf Pear ½ to ⅝ inch, 2½ ft. and up.
Dwarf Pear ⅜ to ½ inch, 2½ ft. and up.

Some exceptions to the above may be made on such varieties as are known to the trade to be light growers.

The committee submitting this report was further instructed to represent the Western Association at this National meeting and if the question was brought up, to work for the grades as here named. Now these grades were not accepted without some argument and discussion. The sixteenth grader was in evidence. Those growing trees on the upland, wanted less height specified than those growing on the lower or heavier lands and so on, but the large majority of those present representing 28 of the largest and best growers and retailers of the west, thought it as good and equitable to all as could be established. The grades as named on apple and standard pear both as to caliper and height, seem to meet the grades as quoted by all prominent growers and have practically been a standard for all of us for years.

The cherry, Dwarf Pear and Plum as to caliper is generally accepted by all, but many differ in regard to height as the trees may grow in their localities, and many quote the one year plum 1-16 lower in each grade than they do the two year.

The grades named on peach are in keeping with the other trees, but here seems to be the hardest problem we have to agree upon. The north and east want 9-16 for the 1st grade tree with no height, while the southern fellows want to grade all trees to the sixteenth and incidentally work in a few June buds, while the west has voiced her sentiments in the grades before mentioned.

The one all important part of all this grading lies in where to place the caliper, that all may grade alike, and this is one thing that can be settled by this Association even if they go no farther and will be one good step in the right direction and result in a benefit to us all and forever settle all controversy as to where a tree should be calipered. You will note that the Western Association has agreed to caliper two inches above the crown or bud, which I dare say no one can object to.

Now with the trade in general so near in harmony with the grades as mentioned here, can we not each give and take a little and all get together on a common basis and forever stop all argument as to what constitutes a first grade tree in the fruit line.

What we may lose on one kind of trees we can easily gain on some other and would not the fact that we all had a universal basis to work on in our grading, in the long run more than compensate us for what each individual might lose.

To know that when we bought number one trees of any kind, from any nursery, no matter where located, just what we were going to get would be a pleasure and satisfaction, many of us have not known for years. To buy trees by height without caliper or by caliper without height is not satisfactory by any means as many of us know from previous experiences.

Let the few who want to grade by sixteenths or those who want to grade by height without caliper or by caliper without height meet the majority at least one half way and let us all join together for one common purpose and establish a universal system of grading and then live up to it.

WHAT IS THE VALUE OF A FRUIT TREE FOUR YEARS IN ORCHARD?

A few years ago I was called upon to assess the loss upon an orchard that had been burned, the fire originating from a railroad. The trees in this case were about twelve years old, and were bearing fair crops of fruit. I assessed the damage at fifty dollars a tree.

The New York Central recently called upon me to estimate the value of two trees about thirty years old that had been injured and partly torn out by having a derrick cabled to them. I examined the trees, which were in a fairly good condition, and bearing quite regularly from five to six barrels of apples some years and from three to four barrels others. The value of these trees I assessed at one hundred dollars apiece, as they pay above six per cent, annually on their value. Had they been in perfect condition, and as large as many trees are that produce from seven to ten barrels, I should have placed the value at two hundred dollars apiece.

The value of a lot of trees set four years ago will be based not only on the four years time lost in their development, but the four years additional required to get another lot of trees up to their value, which will make eight years. At that time many varieties will produce from $1.25 to $2.00 income per tree. I should place the damage at $25 a tree, in this case, as they would produce an interest of six per cent. upon their value with an increase each year thereafter.

GEORGE T. POWELL.

Ghent, N. Y.

PERSONAL MENTION.

Mr. W. P. Stark, of Stark Brothers, Louisiana, Mo., paid a visit to Western New York during the early part of October. He visited the firm's grape nursery in Chautauqua County, and the nursery at Dansville. At the same time he called upon his son, William Stark, now a Junior in Cornell University.

The National Nurseryman

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., NOVEMBER, 1907.

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STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

Western Association of Wholesale Nurserymen—President, A. Willis, Ottawa, Kansas; vice-president, George Marshall, Arlington, Neb.; secretary, E. J. Holman, Leavenworth, Kansas.

Southern Nurserymen's Association—President, Chas. T. Smith, Concord, Ga.; vice-president, C. M. Griffing, Jacksonville, Fla.; secretary-treasurer, A. I. Smith, Knoxville, Tenn. The next meeting will be held in Atlanta, Ga., August, 1908.

Oklahoma Association of Nurserymen—President, J. A. Lopeman; vice-president, J. P. Taylor; secretary and treasurer, C. E. Garee.

Texas Nurserymen's Association—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Thompson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

THE APPLE CROP.

As the season advanced, and finally on the arrival of the harvest period, the opinion previously formed that the apple bin of the United States was located in the East was confirmed. Of course there were small pockets of fruit here and there over the country as in Oregon, Colorado, and Washington; but these cut comparatively small figure in the total out-put. The Hood River crop was again sold at a record making price, Spitzenburgs fetching more than $3.00 per box. New York apple growers are, in the English phrase, "sitting tight," and comparatively little selling was done up to the first of October. Many growers are storing their fruit, expecting to reap large returns later in the season. The crop in Western New York is good in quality and fair in quantity.

INTEREST IN DWARF FRUITS.

Various causes have conspired to focus the attention of the public upon the value and use of the dwarf fruit tree. The invasion and increase of injurious insects and diseases, the necessity of practicing the best sanitary measures in the control of these, together with the increased interest in country living in general, have all had much to do with the change of opinion in regard to the dwarf fruit tree. There is no doubt that it can often be used to advantage where the standard is impracticable. The amateur with a suburban residence, or the villager with a small lot with interests in fruit growing greater than the capacity of his grounds, may, by using these dwarf forms, secure a much greater variety of fruits than otherwise is possible. The care of the tree when grown in bush form is comparatively light, and the methods of pruning and training simple.

While the commercial value of the dwarf fruit tree has not reached the place in this country which it occupies in the old world, yet it is altogether likely that it will be in much greater demand in the next ten years than it ever has been before. Nurserymen will do well to prepare for this demand by securing suitable stocks, and beginning the propagation of this garden class of fruit tree.

AGRICULTURE IN THE SECONDARY SCHOOLS.

There is a wide spread movement for the introduction of agriculture into the high schools. Some of the states, notably Minnesota, Nebraska, and Wisconsin, have gone a step further, and have established high schools of a distinctly agricultural type. Whether this is wise will depend largely upon the arrangement and character of the courses offered. It would be manifestly a mistake to insist upon a student specializing in a technical subject before he was trained in the general branches, and this is probably the greatest element of weakness in connection with the agricultural high school.

At the close of the last session of Congress a bill was introduced by Hon. Charles R. Davis of Minnesota, with the object of extending federal aid to schools of this char-

acter that have already been established in the various states, and to such others as may be established in the future. The bill was not acted upon. It provided for an appropriation of ten cents per capita of the population of each state or territory, as shown by the preceding state or national census, for the maintenance of instruction in agriculture. The bill limits the number of schools in each state to not more than one for each ten counties. The bill goes further and provides for an annual appropriation of $2,500 to maintain experiment stations in connection with the schools, but under the direction of the state experiment station. But each state shall provide the land and erect the buildings. The bill is rather broader than agriculture, in that it includes mechanic arts and home economics. There is a strong movement on foot to secure the re-introduction of the bill next Congress. If it is re-introduced, there is a probability that it will pass. This will mean a new era in agricultural education in this country. These schools will unquestionably prove immediate feeders to the various state colleges of agriculture.

GRAPE CROP IN THE EAST.

The late spring, combined with the cool character of the latter part of the summer and early autumn, has prevented the normal ripening of the grapes in the central and western portions of New York State. The growers found themselves about the middle of October in an awkward position. Frost might be expected at any time, yet the grapes were so immature that grape juice manufacturers objected to receive them at ordinary prices, and sometimes barred them altogether, while their immaturity prevented their being placed upon the city markets in quantity. The outlook suggests low prices and moderate returns. A year of this kind rolls around periodically, and while it is disastrous in its immediate effect, it has the general influence of regulating the planting of a given crop, and thus maintaining a proper equilibrium. Grapes have been bringing such excellent prices for the last two or three years, that the area has been extending rapidly, perhaps too rapidly for the good of the industry.

For two years the grape crop of central and Western New York has been considerably lessened by the inroads of black rot. The present season has been unfavorable for the development of black rot, and the warm, dry weather of August hastened the ripening of the fruit. Grapes began to move early in October, at good prices and in satisfactory condition. Vineyardists in the East will receive satisfactory returns this year.

The National Nurseryman Pub'g Co.:
Gentlemen:

I have received your periodical for some time. I will say that I think it has given me a wonderful lot of information. I think it very useful for nurserymen.

Enclose a check for $2.00 (two dollars).

The Graham Nursery Co.
Mechanicsville, Iowa.

Attention is called to Warnock & Co.'s booklet advertised in this issue.

TRANSPORTATION.

HANDLING OF EXPRESS MATTER

We are much pleased to present to our readers the following interesting letter from Mr. Wm. C. Geraty, the famous "cabbage plant man" of Young's Island, S. C., on the all important question of transportation by express. The letter is the substance of an address by Mr. Geraty before the convention of southern nurserymen at Richmond.

Editor National Nurseryman:

Your letter of Oct. 1st to hand, asking me to give you an abstract of my address at the Nurserymen's meeting at Richmond, in reference to local express agents, connection with shipments of nursery stock, is received and in reply will state, that I did not write any paper on this subject. The matter was brought up at the meeting and as I am express agent at this point, as well as shipper of nursery stock, I simply stated to the Association the cause of some of the troubles, that we have with our express shipments and also some ways of remedying these difficulties.

Our experience has been that 90 per cent. of our express troubles come not through the regular express offices, where we have salaried express employes, but through the small offices. In all of the larger cities of the country, the various express companies have their regularly established express offices, the employees of which attend to the express business exclusively. In these offices the employees usually understand their work and make very few errors, but a very large percentage of the express offices of the various express companies are what are known as Joint Offices, that is, in the smaller towns and places, the man who acts as agent for the Railway Company on a salary is usually also appointed agent for the express company on a commission basis; for this service he gets a certain percentage of the revenue collected. In all offices of this nature the principal part of the agent's compensation then is a salary which he receives from the railway company and of course he makes a study of the railroad business, giving that his closest attention, for the reason that if his services are not satisfactory, he loses his position. Frequently his commission or the compensation received from the express company for the express work does not amount to more than five or ten dollars per month, and the agent does not feel that he has time to keep himself posted on the various express tariffs, as they are issued.

Nearly all of our nursery stock is shipped at a special rate which is 20 per cent. lower than the regular express or merchandise rate, but when these shipments are made to Joint Express Agency Offices, frequently the way bill and shipments get separated in transit. The express agent who receives these packages, if he was properly posted, would of course know the correct express charge to assess, but as stated previously, the large percentage of these agents are not properly posted and as they get a commission on the gross amount, they collect the regular merchant's rate, which is the highest rate that they have, thus often making an over charge of 20 per cent. This is carelessness but in our experience we have found that quite a number of these agents are not honest, they know that the consignee is not

familiar with the express rates, and when the shipment is received, they usually add 10 to 25 per cent. to the charges which they collect converting to their own use the excess amount collected.

These offices, however, are of course not sanctioned or tolerated by the officials of the Express Companies and if nurserymen can furnish the necessary proof of wrong doing, the agent will invariably be reprimanded and a repetition of the same offence will cause his dismissal.

My advice to nurserymen was this, that inasmuch as all express companies print their regular list of offices alphabetically arranged, which are available to nurserymen, the shipper should make application to the superintendent of his division for one of these office lists; he then can go to the nearest express agent, who is properly posted, and have him fill in, in this office list, the express rate on nursery stock from his shipping point to the office shown in the list.

At the time that the nurseryman makes his shipment, it is well for him to notify his customer, that he has shipped him that day a stated number of packages, the express charges on which should be a stated amount, filling in the correct amount of charges in either the letter or notification postal. He should request the consignee that in case the agent at the destination undertakes to collect a larger amount of express charges, than the amount specified in the card of notification, to obtain from the delivering agent the paid express receipt showing the amount collected and to return that receipt with the notification card to him, the nurseryman, and he will then refund to his customer to the excess amount collected. By having in his possession the paid express receipt the shipper can go to the express agent at shipping point and collect over charge. The shipping agent then sends the papers in to the Auditing Department of his company where the excess charge is credited to his office or charged up against the agent at delivering office.

The following is a sample of the Notification Postal that we use in our business and since we have been using these postals, we find that we are saving our customers from one thousand five hundred dollars to two thousand dollars per year, which they would have had to pay as excess charges providing we had not notified them at time of shipment, the correct amount of express charges, to be paid on said shipment.

YOUNG'S ISLAND S. L.

As per your order of we are shipping you by today's express crates containing cabbage plants, the express charges on this shipment should be If the delivering express agent undertakes to collect a larger amount, make him give you a paid express receipt, returning same with this notification card to us and we will refund you the difference and collect same from the express Co. If for any reason you have occasion to refer to this order, refer to order number otherwise we could not locate your order.

Respectfully yours,
WM. C. GERATY CO.

"We received a few days ago, shipped to us from our grower at Long Island, sixty sacks (six thousand pounds) of cabbage seed. This seed is our first installment of the seed that we will sow during the next four months, for growing hardy cabbage plants, with which to supply our trade.

We believe that this shipment of seed is probably the largest shipment of cabbage seed ever sent from a grower direct to the man who intended to plant same."

Yours truly,
WM. C. GERATY CO.

WINTER PROTECTION OF THE STRAWBERRY.

A. B. BALFOUR, LIVONIA, N. Y.

The land selected was a sandy loam well ploughed and leveled with the acme harrow; it was then rolled and marked into stripes three feet wide—the plants were taken from a row grown for the purpose the preceding season, the parent plants being discarded. These plants were cleaned of all runners and dead leaves and the root ends cut off square with a sharp knife leaving only about three inches of root on the plant. The necessary holes for the reception of these plants were made by driving a spade into the soil inclined away from the operator and when lowered drawn towards him and then withdrawn. The plants were set with the left hand, the roots being spread by the fingers and held against that side of the hole first entered by the spade; the soil banked by the pressure of the spade is then pushed *into the hole* and firmed around the roots of the plant, these being set about 8 inches apart. In about a week's time cultivation commenced first with the hoe, the ground being cut around and between the plants, followed immediately by the diamond toothed cultivator, the rear diamonds of which were kept constantly sharp by use of a small file, the cultivator being held over to pass close up to the plants on one side returning between the same rows. The cultivator was then held on the opposite side. This close cultivation with sharp teeth discouraged surface roots of the parent plants and consequently left the ground in better shape for the roots of their progeny. After the rows get pretty well filled up with plants the smooth surface cultivator is used only, and by the middle of August these rows should present even stripes of green across the field, two feet wide; now sow oats broadcast over the entire field using from one and a half to two bushels and run the cultivator through to cover. The oats must be good and *thoroughly cleaned*. The seed that falls amongst the berry plants will receive shade therefrom and sufficient will germinate and grow, but that which is covered with the cultivator will give the most vigorous growth and should stand from two to two and a half feet when winter sets in; the snows of winter will carry this down completely covering the entire field with a soft, pliable but firmly fixed mulch such as will *not be disturbed* by the *spring winds nor* will it offer any *serious obstruction* to the *growing plants*; although it may be better to part it here and there where plants have difficulty in pushing through as shown by the bulging of the litter. The cultivator should not enter the field until after the crop has been gathered.

Our Book Table

DAFFODILS AND NARCISSUS. 7½x5½, 230 pages, illustrated. A. M. Kirby, published by Doubleday, Page and Co.

This little volume marks a somewhat new departure in the type of garden books. It is cultural and at the same time somewhat monographic. The directions for growing the plant are given first and then follows a classification and description of the leading varieties of the group. It thus comes midway between a botanical text and the practical guide, or attempts a combination of both. In this attempt it is fairly successful, and anyone who desires a handy reference to this interesting group of bulbous plants should possess this book. In addition to the growing of the plants from the bulbs and their treatment directions are given for securing new varieties from seed. The price of the volume is $1.10.

REPORTS RECEIVED.

Report of the Office of Experiment Stations, 1906. Every person who is interested in the progress of agricultural education and agricultural research should obtain a copy of this report. It contains a digest of agricultural advances for the year 1906, and the mere statement is so impressive that it should be in the hands of all persons interested in, or associated with agriculture, and any of its branches. The volume contains the statistics of the colleges and experiment stations, a record of the various activities of the Office of Experiment Stations, which acts as a guiding and controlling bureau for the state stations; the progress of farmers' institute work in the United States; an account of the movement for the reclamation of dry lands, as well as bog lands, in the United States; together with many other interesting items. It is a work of prime importance to the teacher, whether he be connected with college, with high school, or extension.

APPROBATION AND SUGGESTION.

Editor National Nurseryman:

Sir: You are certainly getting out a remarkable trade paper, and you keep your eye on the bull's eye all the while. It is what it claims to be, a national nurseryman's paper. If we were to make any suggestion at all, it would be that you devote a little more attention to the interests of the retail nurseryman. By that I mean a firm that is not much of a grower but rather a seller, and who operates through the mail order or agency plan. There are hundreds and thousands of such concerns who do very little growing comparatively, and sell a great deal, whose interests are great, and there are very many concerns of stock. We think hints and suggestions, comparing notes, etc. along this line will be mutually helpful and advantageous. There are a number of problems to be taken up and perhaps solved to good advantage. The writer started his experience along this line with Western New York nurserymen, and has also been connected with two growers in the west.

One of the problems that should be solved is the handling of criminal dead beats who forge and steal with impunity, and escape simply because the victim is too far away personally to give the matter attention. If there were sufficient community interest so that a man who does this sort of thing could be handled by the home authorities although the victim lives in New York or other state, there would soon be so many examples in the criminal courts that fraudulent transactions of this kind would be reduced to a minimum.

CENTRAL MICHIGAN NURSERY,
L. P. Thurston, vice-pres. & managing director.

Obituary

EDGAR SANDERS.

In the passing of Edgar Sanders another of the respected members of the old school of gardeners has been taken from the ranks. Edgar Sanders was an Englishman. He was born in Sussex County, England, October 10, 1827. He came of a gardening family, and was apprenticed early in his life, after the English system, to a nursery establishment. Mr. Sanders came to America in 1853. On arriving in this country he engaged his services to the noted Albany nurseryman, James Wilson, and soon came in touch with Luther Tucker, who published "The Country Gentleman." At an early age Mr. Sanders became a contributor of the agricultural press of this country, and "The Country Gentleman" was one of the first periodicals to secure his services. He moved to Chicago in 1857, when it had less than 100,000 inhabitants, and immediately engaged in the greenhouse business. He was one of the first four florists in that city. He opened the first flower store in Chicago in 1867. He was one of the sufferers in the great Chicago fire in '71. He continued in the business until 1882, when he retired from active work as a florist. Since that time he has been better known as a contributor to the horticultural press of the country than as a grower.

Mr. Sanders was always active in association affairs, and was one of the prime movers in the organization of the American Association of Nurserymen. At the initial meeting in 1876 he acted as temporary president, and subsequently in 1884 was elected president. In addition to officiating as president of the Chicago Florists' Club, of the Horticultural Society of Chicago, and various state organizations, he found time to take a part in civic and political life. Edgar Sanders occupied a large place in the horticultural life of the Middle West. For the past four or five years he has been an invalid, but up to the last he never quite lost his hold nor his interest upon gardening matters.

CHARLES PATRICK BARRY.

At Rochester, New York, early in October the death of Mr. Barry occurred. He was the vice-president of the Ellwanger and Barry Nursery Company, and was also associated with the Ellwanger and Barry Realty Company. He was a brother of Mr. W. C. Barry, and son of the late eminent Patrick Barry. His death occurred at the age of fifty-five years.

PECANS IN TEXAS.

The crop of pecans in Texas and Mexico is reported as being unusually large. Texas growers met recently at Austin, for the purpose of developing a systematic plan whereby the crop might be distributed satisfactorily, and thereby bring larger returns to the grower. Leading speakers urged the propagation and cultivation of the better varieties, and the elimination of the small seedling kinds, which are found now so abundantly on the markets. An effort is to be made in Texas to organize district and county associations of nut growers. These are to be tributary to the state organization and assist that association in placing the crop to advantage.

American buyers have been prospecting for pecans in Mexico and have made large contracts for the native crop. Owing to the fact that there is little home demand for this nut in Texas, the buyers have been able to secure the crop at comparatively low rates.

THE DIGGING SEASON.

Nurserymen have been hustling the digging and packing gangs for some time. The weather has been cool everywhere, and wet in spots. The digging season opened unusually early in the South.

AMERICAN CIVIC ASSOCIATION.

One of the interesting questions which will be discussed by the American Civic Association in its yearly meeting to be held in connection with the convention of the National Municipal League in Providence, November 19-22, will be the elimination of the billboard as a nuisance.

As a result of the Association's crusade against the objectionable billboard in the various cities of the country, a strong sentiment has been developed, and merchants and advertisers are numbered among those who are opposed to this means of advertising.

One of the efforts of the association is to have removed the billboards which now interrupt the beauties of Niagara Falls.

Another subject which will be discussed by the annual meeting will be the proposed international agreement with Great Britain for the permanent preservation of Niagara Falls in its rare natural beauty. It will be recalled that the American Civic Association was the leader in the movement which resulted in Congressional action to protect the Falls from the greed of the power corporations.

President Roosevelt, who is a member of the association, is much interested in its work, and has favored many of the suggestions made by the organization in its move for "a more beautiful America."

Of the 2,325 members of the American Civic Association throughout the country, many are active in local movements for the beautification of municipalities as well as in the national efforts for civic improvement.

In addition to the Niagara Falls and billboard campaigns, the association is devoting much energy to working for increased forest reservations, for school gardens in connection with educational work in the large cities, for the establishment of systems of public parks and children's playgrounds, and for rural improvements.

J. Horace McFarland, of Harrisburg, is the president of the American Civic Association, with these other officers: Clinton Rogers Woodruff, of this city, L. E. Holden, of Cleveland, and James D. Phelan, of San Francisco, vice-presidents; William B. Howland, of New York, treasurer, and Robert C. Ogden, of New York, chairman of the advisory committee.

In evidence of the wide scope of the American Civic Association's work are the various departments conducted as follows:

Woman's Out-door Art League, Mrs. Edwin F. Moulton, of Warren, O.; Arts and Crafts, Mrs. M. F. Johnston, of Richmond, Ind.; Children's Gardens, Miss Mary Marshall Butler, of Yonkers, N. Y.; City Making, Frederick L. Ford, of Hartford, Conn.; Libraries, Miss Mary E. Ahern, of Chicago; Factory Betterment, Hon. Robert Watchorn, of New York; Outdoor Art, Warren H. Manning, of Boston; Public Recreation, Joseph Lee, of Boston; Public Nuisances, Harlan P. Kelsey, of Salem, Mass.; Parks and Public Reservations, Henry A. Barker, of Providence; Railroad Improvements, Mrs. A. E. McCrea, of Chicago; Rural Improvements, D. Ward King, of Maitland, Mo.; School Extension, Mrs. Caroline Bartlett Crane, of Kalamazoo; Social Settlements, Graham Romeyn Taylor, of Chicago.

Speaking of the Providence meeting, Vice-President Woodruff said:

"An entire session of the Providence meeting will be devoted to the consideration of Niagara Falls. All the interests centering around the Falls will be represented, and when we publish the programme, it will disclose a session of unusual interest and importance. Another session will be given to billboards, a subject that is very properly coming in for a great amount of attention at the hands of improvement workers, who are realizing that they cannot achieve the city beautiful so long as the highways and fences are filled with objectionable advertising which is an offense to the eye, a detriment to the appearance of the city, and a menace to the morals.

"Other important subjects will receive a large share of attention, and the whole meeting promises to be of record-breaking interest."

PACKING AND SHIPPING YOUNG FOREST TREES.

The United States forest service department gives the following directions for the packing and shipping of forest tree seedlings:

"As soon as the seedlings are taken from the ground the roots should be dipped into a "puddle" of thin mud. Bundles of 50 or 100 should then be made, and the roots of the plants covered with moist sphagnum moss, which, in turn, should be wrapped about with several layers of thick paper. The paper assists greatly in preventing the evaporation of moisture from the bundle. After this each bundle should be tied about the middle with twine or raffia fiber, care being taken not to draw the cord tight enough to injure the seedlings. The bundles should then be placed in a box wide enough to admit several bundles side by side, and long enough to hold two bundles laid end to end, with a space of few inches between the tops. A tier of bundles should be placed on the bottom of the box, with the roots next the ends and the foliage toward the middle. Across the middle of each row should be placed a cleat, about 1 inch thick and 2 inches wide, secured in position by nails driven into its ends from without. Above the first tier of bundles a second should be laid and secured in the same way; then a third, and so on until the box is full or the required number of plants have been packed, as seen in the illustration.

Further to insure the retention of moisture about the roots, the spaces between the root wrappings should be filled with wet chaff or moss, but the spaces between the tops should be left empty. After the box has been nailed up, two or three holes should be bored into the sides so that the air may circulate freely.

Seedlings packed in this way will remain in good condition for several weeks, but the box should be kept from the sun and opened as soon as possible.

Where sphagnum moss is not available, the roots may be wrapped in wet burlap, fine wet chaff, or saw-dust which has undergone fermentation. With all these, however, extra care must be taken to cover the wrapping with paper.

When the trees are to be transported only a short distance by wagon, less care is necessary. The bundles should be made up as described, but may be set upright in shallow, open boxes.

Deciduous trees are best transplanted when not over 2 feet high, and should always be moved when the leaves are off.

For long-distance shipment the seedlings should be wrapped and boxed in the manner described for conifers, although the greater part of the plant usually necessitates putting a smaller number of seedlings in each bundle. For shipment only a short distance, it often suffices to surround the roots with wet chaff and a wrapping of burlap.

Deciduous or broadleaf trees will withstand harder usage than evergreens, yet all kinds repay careful treatment while being transplanted."

Among the Experiment Station Workers.

Minnesota Experiment Station has been investigating the cost of crop production. This is a phase of rural economics As a result of this study it has been found that field crops cost as follows in different parts of the state:

The total cost per acre of producing the staple crops of ear corn, fodder corn, hay, oats, barley, and wheat is as follows: Northfield, southeastern Minnesota, corn husked from standing stalks, $11.17; fodder corn, $12.20; clover and timothy hay, $6.97; wild hay, $5.85; oats, $9.84, and barley, $9.13. Marshall, southwestern Minnesota, corn, husked from the standing stalks, $9.96; wild hay, $5.18; oats, $8.83; barley, $8.58, and wheat, $7.89; Halstead, northwestern Minnesota, fodder corn (shocked in the field), $8.08; wild hay, $2.87; oats, $6.31; barley, $6.41, and wheat, $6.26. Large farm in northwestern Minnesota, fodder corn (shocked in field), $7.52; wild hay, $2.29; oats, $5.88: barley, $5.97, and wheat, $5.82.

Massachusetts: Bulletin No. 116, San Jose Scale. This bulletin shows that San Jose scale is distributed throughout Massachusetts. It recommends the cutting down and burning of badly infested trees and shrubs. It shows that a great many remedies have been tried but that the lime-sulfur wash gives the best average results. For summer spray kerosene emulsion or whale oil soap, while not completely effective, will hold the scale in check until winter treatment can be applied.

Valuable Spray Experiments.

Nebraska: Bulletin 98, Spraying Demonstrations in Nebraska Apple Orchards. This bulletin gives the results of six demonstration spray experiments carried on in the orchards of Nebraska fruit growers. Five applications were made beginning about the first of May and closing about the 25th of July. Bordeaux mixture was the fungicide and Paris green the insecticide. The formulas used were four pounds of blue stone, six pounds of lime, four ounces Paris green, to 50 gallons of water. The spraying varied in expense from 12 cents per tree to 25 cents per tree, for five applications of these mixtures. The cost was rather higher where hand power was used than where a geared power or gasoline engine was employed.

As to results, there was very little scab on any of the sprayed varieties, wine sap excepted. This variety showed in one case 31 per cent. of scab on the sprayed trees and 90 per cent. on the unsprayed. The average per cent. of scabby fruit in all the sprayed orchards was six, and in the unsprayed 38. The average per cent. of wormy fruit in the sprayed orchards was 22 and in the unsprayed 46. This showing in the case of the wormy fruit is not as conclusive as some experiments have already demonstrated. The authors conclude that a later spraying for codling moth would have been very beneficial.

The striking results of these spraying experiments are shown in the value of the fruit from the unsprayed and sprayed trees. That from the unsprayed trees averaged 80 cents per tree while the fruit from the sprayed trees brought in the market an average of $1.87 per tree. Subtracting the cost of spraying which amounted to 21 cents per tree there remained a value of $1.66 per tree for the sprayed fruit as against 80 cents per tree for the unsprayed. The author states that on land worth $100 per acre the unsprayed fruit produced an average return of $40 per acre and the sprayed fruit an average return of $80 an acre above the cost of harvesting and spraying. This is a type of farmers' business experiment which is very valuable.

U. S. Dept. of Agriculture, Bulletin 284: Insect and Fungus Enemies of the Grape East of the Rocky Mountains. This bulletin discusses the leading enemies of the American grape and its hybrids. Among the insects described are the grape root worm, the grape berry moth, the grape curculio, leaf hopper, leaf folder and rose chafer.

Among the fungus diseases black rot, downy mildew, powdery mildew, bird's-eye rot, and ripe rot are described. The bulletin gives instructions for the treatment of these enemies.

NOTE AND COMMENT.

Mexican Pecan Crop. The pecan crop reports from Moncolva, Mexico, indicate that the yield will be the greatest ever known. This region is one of the most noted pecan districts in Mexico, and is said to produce nuts of excellent quality. These seedling trees are large and have a great bearing capacity. Individual trees have a record of producing fruit to the amount of $150 in one season. This crop was sold some months ago to American buyers.

Oregon Pears. Oregon continues to keep to the fore in the matter of securing record prices for fruit produced within its borders. Late in September a car load of Comice pears shipped from Medford, Oregon, was sold in New York for the gross return of $4,622.80. This is a record price for a car lot of pears in this country.

In 1906 the United States imported bananas to the value of $6,662,254. As an essential fruit the banana probably occupies a more important place in the horticultural world than any other single fruit.

Pure Food Law.

The operation of the pure food law is bringing considerable confusion, if not consternation, among the California packers. The law prohibits the use of sulfur in the preparation of evaporated stock, and as the use of this substance has been so thoroughly embedded in the practice of evaporating, it is very difficult for the California manufacturers to re-organize their methods. The Division of Foods of the Department of Agriculture, Washington, has been conducting sulfuring experiments in various sections of the state, for several weeks with a view to ascertain the facts in the case.

MEMOIRS OF P. J. BERCKMANS.

The first of a series of articles which are bound to be of surpassing interest appears in the "Garden Magazine" for November. These are the horticultural memoirs of Prosper J. Berckmans of Augusta, Georgia. For many years Mr. Berckmans was president of the American Pomological Society, was a co-worker with Downing, Wilder, Barry, Thomas and Warder, and has been, while engaged in the nursery business, instrumental in introducing many plants which have been of great service to the South. Mr. Berckmans imported the hardy orange, Citrus trifoliata, from Japan in 1878. For hedge purposes this plant is unsurpassed in the South, and it bids fair to be a parent of a new race of hardy oranges, which may restore orange growing to its old standard in Northern Florida.

CHESTNUT CULTURE BY J. W. KERR.

Our good friend, John W. Kerr, of Denton, Maryland, has something to say about chestnut culture in a late issue of the "Garden Magazine." Mr. Kerr is not enthusiastic about the eating value of the Japanese chestnut. He says, "The real hope of the whole species lies in the improvement of its quality by hybridizing." The most profitable varieties of chestnuts now in cultivation are those descended from the European and Spanish races. The finest in quality of all the the chestnuts are some of the improved forms of the native American.

A. L. Quaintance of the United States Bureau of Entomology is authority for the statement that the approximate annual loss to fruit growers and farmers in the United States by insect depredations reaches the enormous sum of $700,000,000. This loss is to be charged to the work of 1,000 or 1,200 forms which are regarded as injurious.

The editor's desk has received a copy of the Maine State Pomological Society Report for 1906. This makes up a pamphlet of 135 pages, edited by the secretary, Mr. D. H. Knowlton. It is nicely illustrated, well printed, and altogether an attractive and useful volume.

E. P. Bernardin, of Parsons, Kansas, reports the weather fine for packing, and sales first class.

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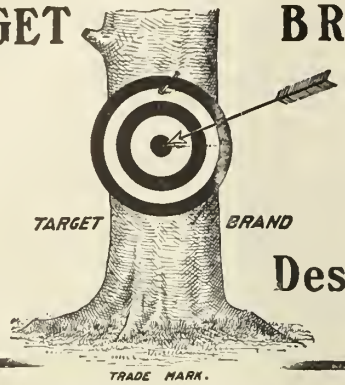

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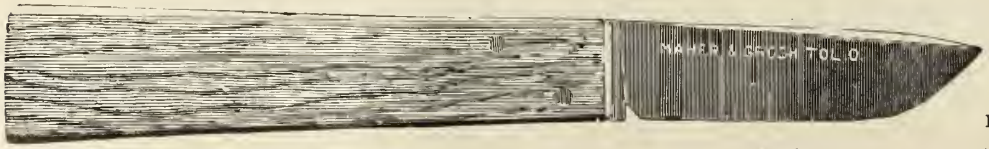

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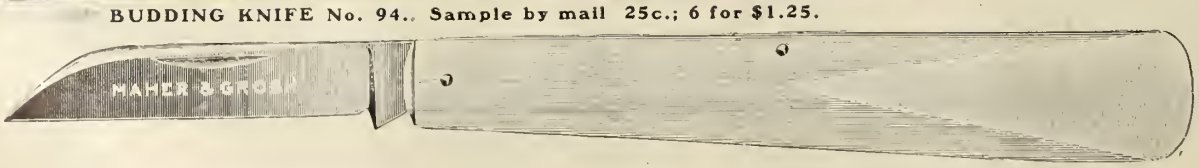

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CHERRY TREES from Indiana.

PECAN TREES Paper shell sorts from our branch nursery in Monticello, Florida.

H. M. SIMPSON & SONS,
Vincennes, Indiana.

Black Locust Seedlings

We have still on hand a fine lot of well matured and well rooted Black Locust Seedlings in single thousand or car lots. Also a few thousand Mulberry, Osage and Honey Locust. Let us price your wants in this line. CATALPA Seedlings sold.

J. A. GAGE, Beatrice, Nebr.

Established in 1866. **500 Acres Under Cultivation.**

W. T. HOOD & CO.,

OLD DOMINION NURSERIES,
RICHMOND, VA.

OFFER FOR SPRING 1908

KIEFFER STANDARD PEARS,
CALIFORNIA PRIVET—Fine Plants,
and General Line of Nursery Stock.

Correspondence Solicited.

Fruit Tree Seeds

French Crab—Crop a failure. We may have a few bushels for those who order now. By a fortunate stroke we secured a limited amount of last year's harvest.

Myrobolan Plum—A limited amount is promised us but judging from early reports the quality will not be sufficient for all. We will book a few more orders.

French Pear—Harvest uncertain. Not likely that our collection will send us much. Better write NOW if you wish some.

Mahaleb Cherry—our Mahaleb seed is known to growers the country over, year after year we book their orders. Such would not be the case if the seed did not give good results. There's a reason.

Ask for a Sample of Red Star Raffia

THOS. MEEHAN & SON Box I, Dreshertown, Pa.

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

We offer for Spring, 1908, a general line of Well-Grown Stock, such as

Apple, Peach, Pear, Plum, Cherry, Apricots, &c.

Also a good assortment of Ornamental Trees, Shrubs, Roses, &c.

A fine lot of 1, 2 and 3 year old Privet, cut back this spring, heavily branched.

Several hundred bushels of Selected Peach Seed. **We pack dealers' orders.** **Send us your list of wants, also your surplus list.**

W. FROMOW & SONS, Windlesham, England

We have a great assortment (250 acres) of first-class general HARDY NURSERY STOCK, including a fine line of RHODODENDRON, Coniferous Evergreens, HYBRID and other ROSES; Manetti Rose stocks for budding or grafting, and the finest stock in existence of the true GOLDEN PRIVET. Also an immense stock of young stuff, well rooted, for Nurserymen's own planting. Let us appraise your wants for Fall 1907, or next Spring delivery. Address our American Agents, also for latest trade list.

AUGUST ROLKER & SONS, P. O. BOX 752 or 31 Barclay Street, New York

McHutchison & Co.

17 Murray Street, NEW YORK CITY

Representing in
United States and Canada

VINCENT LEBRETON,
ANGERS, FRANCE,

Grower and Exporter of

FRUIT and ORNAMENTAL SEEDLINGS

Such as

Pears, Apples, Mahalebs, Mazzards, Myrobolans,
Angers Quince, Manetti, Etc.
Also a Full Line of Ornamental Stocks.
Own Cultures Exceed 20,000,000 Stocks.
Write for special prices, lists, catalog, etc.

SCHAUM & VAN TOL,
Boskoop, Holland,

Wholesale Growers of

H. P. and TREE ROSES, RHODODENDRONS, HARDY AZALEAS, BOXWOOD, PAEONIES, CONIFERS, Etc.

Also full line of Boskoop grown stock.
Write for special prices, lists, catalog, etc.

UNION NURSERIES,
Oudenbosch, Holland,
(H. W. Van Der Bom, Director).

SYNDICATE OF PRINCIPAL GROWERS
OF
NORWAY and SCHWEDLER MAPLES, HORSE CHESTNUTS, RIVERS PURPLE BEECH, THORNS, LIMES, ELMS, PLANES, Etc.
Also Full Line of Evergreens.
Large Quantities. Lowest Prices.
Write for special price lists, catalog, etc.

We are direct importers of
ENGLISH MANETTI, RHODODENDRONS, Etc.
JAPANESE NURSERY STOCK, MAPLES,
SCIADOPITYS, TREE PAEONIES,
THOYA, JAP. BULBS, Etc.

RAFFIA, Red Star Brand.
The Nurseryman's Grade.
Long, Strong, White Strands in Braided Hanks.
Stock always on hand. Samples sent free.
BALE LOTS ONLY.

SHIPPING. We have our own Custom House Department. Special facilities at Havre, Antwerp, Rotterdam, Southampton, Hamburg, etc. Lowest rates consistent with perishable nature of stock.

McHUTCHISON & CO.
17 Murray St., NEW YORK.

Dreer's Herbaceous Paeonies

We are now supplying the following select list of Double Paeonies, of which we have an exceptionally large stock of our own growing strictly true to name, all in strong divisions with from 3 to 5 eyes each.

Note—Special list of interesting prices will be mailed on application.

Agnes Marie Kelway. Rosy white guard petals with creamy white center.
Achille. A beautiful soft mauve rose changing to almost pure white.
Alba Plena. A useful white cut-flower variety.
Andre Lauries. A fine tyrian rose, late.
Artemise. Outer petals bright lilac rose, center white with silvery-rose markings, a fine large flower.
Canary. Guard petals white, center yellowish changing to pure white.
Chrysanthemiflora Rosea. A fine large deep rose pink with paler shadings in the center, a fine cut flower.
Duc de Cazes. Guard petals tyrian rose, center soft rose-pink, a beautiful formed flower useful for all purposes.
Duchess de Nemours. An extra fine large pure white.
De Jussieu. Pale lilac rose with creamy white rosette shaped center.
Edulis Superba. Soft mauve with lighter shadings.
Festiva Alba. Popular white for cutting.
Festiva Maxima. Pure white, center petals occasionally tipped red; this is the very large white variety, the most popular for cut flowers.
Humei. Rose pink.
Lady Bramwell. A beautiful silvery rose of large size and fine form.
Lamartine. Solferino red shading lighter to the center.
Louis Van Houtte. Brilliant crimson maroon of good size and very free flowering.
Mme. Callot. White, tinted with rose when first opening, changing to creamy white, a fine large flower.
Marie Lemoine. An extra free flowering large late ivory white.
Ne-plus-ultra. Violet rose guard petals, center mauve rose with lighter edges.
Paganini. Light solferino red with lighter center, a medium sized but well formed flower and very free.
Pomponia. Rosy mauve guard petals, primrose yellow center changing to creamy white.
Queen Victoria. A good early white.
Rosea Elegans. Guard petals silvery rose, center creamy white suffused with rose; a fine large flower.
Rubra Triumphans. Rich carmine purple with prominent yellow stamens.
Victoire Tricolore. Guard petals delicate lilac rose, center light salmon yellow.
Whitleyi. A fine early white.

HENRY A. DREER, Inc. 714 Chestnut Street Philadelphia, Pa.

The L. Green & Son Co.

PERRY, LAKE CO., OHIO.

OFFERS FOR FALL '07 AND SPRING '08, ONE OF THE MOST COMPLETE ASSORTMENTS IN THE COUNTRY.

HEAVY on Std. and Dwf. Pear, European, Japan and Native Plum, Peach, Ornamental Trees and a fine lot of Poplars, including 1 yr. whips. Lots of shrubs, vines, roses, evergreens, herbaceous and perennial plants. Also a nice lot of 1 yr. grapes that promise to be good stuff.

Correspondence solicited and inspection invited.

WOOD LABELS
FOR NURSERYMEN AND FLORISTS

The Quality that Gives Satisfaction.

No orders too large for our capacity, or too small to receive our careful attention.

Samples and Prices Cheerfully Given.

DAYTON FRUIT TREE LABEL CO.
SOUTH CANAL STREET, DAYTON, O.

For Sale One Thomas Tree Baler, practically NEW, has never been used, which we will sell at a very LOW PRICE. Address,
Lock Box 220, GENEVA, N. Y.

WANTED Sole Agent for United States and Canada for one of the oldest Wholesale Seed and Nursery businesses of Germany.
S. K. care NATIONAL NURSERYMAN.

GOOD STOCK

Of Magnolias in the following varieties: SOULANGEANA, HALLEANA, CONSPICUA and LENNEII, also MAGNOLIA ACUMINATA seedling, one and two year.

Heavy on Cut leaf Weeping Birch in the different sizes from 4 to 12 feet.

MARK WELCH, Painesville, Ohio.

Surplus Stock, Spring 1908.

10,000 Peach, 1 year, 2 to 3 feet,
10,000 Peach, 1 year, 1 to 2 feet,
10,000 Peach, 1 year, 3 to 4 and 4 to 5 feet.
50,000 Peach, June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ROSES
FOR SPRING PLANTING

should be ordered now,—selected in choice plants from early summer propagation, shifted to larger pots, located favorably in cool-houses free from diseases, and brought to prime size, strength and condition.

400 best sorts on own roots

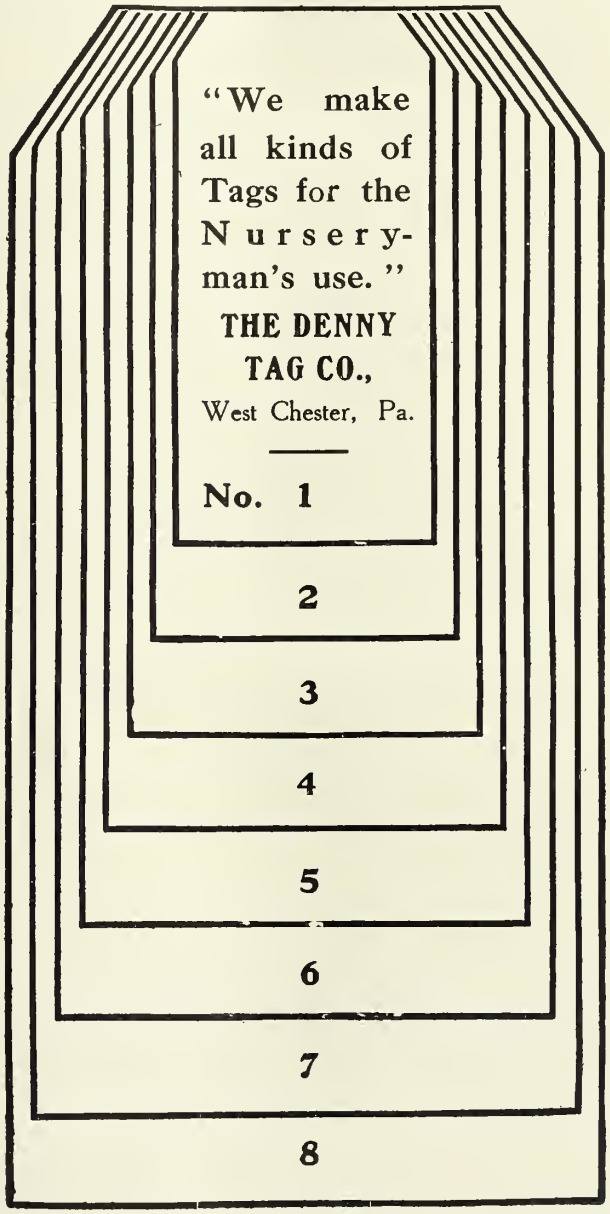
THE LEEDLE FLORAL COMPANY® SPRINGFIELD·OHIO·

We Make a Specialty of the Manufacture of

WATERPROOF SHIPPING TAGS AND TREE LABELS

"They will stand the weather."

THE DENNY TAG CO., West Chester, Pa.



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Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

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NATIVE RHODODENDRON

I have control of several thousand acres of Mountain land covered with Rhododendrons and am in a position to get these out on reasonable terms. Address, . . .

JOHN A. YOUNG, Nurseryman, GREENSBORO, N. C.

LOMBARDY POPLARS.
9, 10 and 12 ft. Young Trees; branched low.

CALIFORNIA PRIVET.
Fine. 15 inches to 5 ft. 1 and 2 yrs

CAROLINA POPLARS.
1 in and 2 in.

PEACH TREES.
HEMLOCK, SPRUCE.
5 to 7 feet.

JOSIAH A. ROBERTS, Malvern, Pa.

WHITE PINES

4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

HARLAN P. KELSEY,
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VINCENNES NURSERIES,

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CHERRY.

We are pleased to announce that we will have our usual supply of Cherry, One and Two Year, that promise very fine.

While we grow Cherry in larger quantities than any other Stock, we also have a very complete line of the following:

Apple, Std. Pear, Plum, Peach, Roses, Shade Trees, etc.

CAR LOAD LOTS A SPECIALTY.

MARYLAND PEACH SEED

We have on hand a limited quantity of mixed varieties of Peach seed which we offer at reasonable prices.. Write us for samples.

THE GROWERS SUPPLY CO.
119 S. CHARLES ST., BALTIMORE, MD.
Warehouse, 1st Ave. and 8th st.

4,000,000 PEACH TREES

J. C. Hale, *Prop.*

TENNESSEE WHOLESALE NURSERIES,

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Large stock of Apple 1 yr. Pear and Cherry. Write for prices.

COMMERCIAL NURSERY CO.

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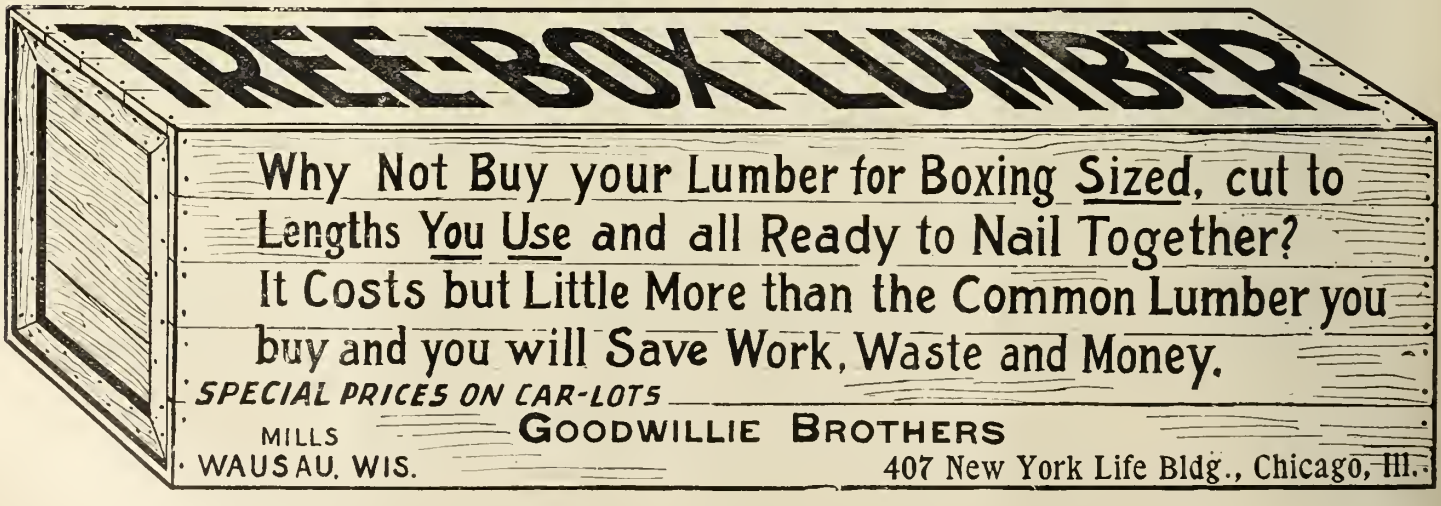
OFFERS A FINE BLOCK OF ONE YEAR APPLE BUDS OF GOOD VARIETIES, JUNE BUD PEACH AND NICE LINE OF GRAPES, CAROLINA POPLARS BY THE THOUSAND, KIEFFER PEARS AND A GENERAL LINE OF NURSERY STOCK. WRITE FOR PRICES AND GIVE US A CHANCE TO QUOTE YOU AND WE BELIEVE WE CAN PLEASE YOU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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
SPECIAL PRICES ON CAR-LOTS
MILLS
WAUSAU, WIS.
GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

Texas Trees

A great stock of them; 102,000 Elberta; 26,000 Burbank; all good things same way. Write for trade list.

Plant some McDonald berries—a cross between a dewberry and a blackberry. It is a wonder. Paid $900.00 an acre here.

Texas rain lilies (Fairy lily.) The daintiest thing in Dixie. Clematis, Coccinnea, and Crispa

EUPATORIUM is the sweetest shrub and Malvaviscus the reddest and brightest; absolutely hardy. Send for trade-list of shrubs of semi-arid Texas. They respond gloriously to cultivation and water.

Texas Pecan Nuts for Planting

F. T. Ramsey

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AUSTIN, TEXAS

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C. M. HOBBS & SONS,

—— Successors to ——

ALBERTSON & HOBBS,

: BRIDGEPORT, IND. :

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR

FALL of 1907 and SPRING of 1908

PLUMS (large stock, all grades) European, Japan, AMERICANA, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

Grafts put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market.

TRADE LIST READY

We can supply any amount of light grade pear and SMOOTH STRAIGHT Norway Maple.

WANT LISTS PRICED PROMPTLY.

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Year Old for Fall, of 1907 and Spring of 1908 Delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fibrous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance 'Phone and Telegraph, Snow Hill, Md.

You Need Them and We Have Them

WHAT?

WHY ALMOST ANYTHING IN THE WAY OF

Fruit and Ornamental Trees,

Grafted Pecans and Pears Especially.

WE CAN HANDLE LARGE ORDERS TO YOUR ENTIRE SATISFACTION. WRITE US

ARCADIA NURSERIES,

WHOLESALE—RETAIL.

J. H. Girardeau, Jr., Mgr. MONTICELLO, FLA.

REGRADING

Has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

The GEO. PETERS NURSERY CO., Proprs. .. TROY, OHIO.

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Ask for Estimates.

HIRAM T. JONES,

Union Co. Nurseries, Elizabeth, N. J

JAS. M. KENNEDY,

DANSVILLE, N. Y.

Nurseries at Dansville and Geneseo, N. Y.

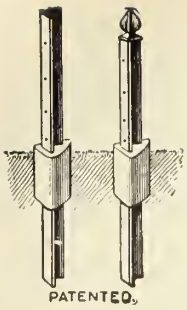
GENERAL NURSERY STOCK,

Stand. and Dwf. Pear, Cherry, Apple, Quince and Plum, Fine stock, 2 yrs. old.

BUDS, BUDS, BUDS, free from San José Scale.

Pear, Plum, Cherry, Quince and Apple, can ship same day order is received. Send your order, prices will be made satisfactory.

When writing to Advertisers mention The National Nurseryman.



STANDARD STEEL FENCE POSTS are to be driven. One-third cheaper than wood posts; will last forever. Posts made for all purposes; lawn, farm and field fencing. Plain, barbed or woven wire fencing can be used with the Standard Posts. 10,000 in use on one job in N. Y. State; 7,000 in use on another job in Missouri. Factory near Pittsburg, Pa. Write for catalog and price list to

J. H. DOWNS,
299 Broadway, NEW YORK CITY.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Americana Plum Seedlings

The only good Grafting and Budding Stock for Americana Plums, Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Paeonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

Are Leaders to the Trade this Year.

We also offer a general line of Nursery Stock, including Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING 1908.

A very complete assortment of Fruit, Shade and Ornamental Trees, Shrubs, Roses, Evergreens, Small Fruit and Herbaceous Plants, Forest Tree Seedlings in large quantities, including Catalpa Speciosa (genuine) for commercial Forest planting. Tree seeds of all kinds in season. Special prices quoted on the following trees: Tulip, Poplar, Catalpa Speciosa, Am. Sycamore, Am. Linden, Green Ash, Eup. Mt. Ash and Oak Leaf Ash, Am. Elm, Red, White, Swamp and Burr Oak from 5 to 12 feet. Write for prices.

THE DONALDSON COMPANY,
WARSAW, KENTUCKY.

APPLE SCIONS FOR DELIVERY after Nov. 15th.

Write for prices.

We also offer a large stock of *Apple, Arbor Vitae* in variety, *Evergreens, Shrubs,* Deciduous Ornamental Trees, *Peonies,* etc.

Write for Price List.

WILD BROS. NURSERY CO., - - - Sarcoxie, Mo.

Victor Détriché, Nurseryman

ANGERS, FRANCE.

Grower and Exporter of FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.

Write direct, I have no agent.

The Largest Stock of For Fall, 1908

CURRANTS and GOOSEBERRIES Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MULLERKLEIN'S Nurseries,

KARLSTADT (Bavaria-Germany.)

Please ask for prices.

P. OUWERKERK,

No. 216 Jane St., Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Paeonies, Magnolias, Box Trees, Fancy Conifers, Hydrangeas and Shrubs, our specialties at our HOLLAND NURSERIES. Some of the goods on hand here during the packing season.

BLACK LOCUST, HARDY CATALPA, RUS. MULBERRY, HONEY LOCUST AND OSAGE SEEDLINGS
by the 1000 or car lots.

Send us a list of your wants and don't buy until you have our prices.

C. M. HURLBURT, Mgr. FAIRBURY, NEBR.

Goossens & Hellemons, Oudenbosch, Holland

(Formerly C. ESCHWEILER)

Growers of Hardy Ornamentals, Forest and Avenue Trees, Conifers, Evergreens and Shrubs; also a fine line of assorted Seedlings, at reasonable cost; Supply only A 1 QUALITY! For New Trade List, now issued, Address the American Agents:

August Rölker & Sons, New York, P. O. Box 752 or 31 Barclay Street

Viburnum Plicatum

We have a large stock of this valuable shrub in all sizes.

Pin and Red Oaks

Of all sizes from four to sixteen feet.

We offer one of the largest collections of Ornamental Stock in the country.

Japan Plums

All varieties, largely of Abundance and Burbank.

SEND US YOUR LIST OF WANTS.

HOOPES BRO. & THOMAS COMPANY,
West Chester, Penna.

Philadelphia Office
220, 222, 224 Stephen Girard Building

Established 1853

R. DOUGLAS' SONS

WAUKEGAN NURSERIES

WAUKEGAN, ILLINOIS.

EVERGREEN SEEDLINGS IN LARGE QUANTITIES.

EVERGREENS FOREST TREES

Largest Stock in America, including Colorado Blue Spruce and Douglas Spruce of Colorado.

RARE---HARDY---BEAUTIFUL

Also Ornamental and Shade Trees, Shrubs, etc.

Grafted Pecan Trees

THE NUT NURSERY CO.

R. C. Simpson, Mgr., MONTICELLO, FLA.

GIUSEPPE SADA

SEED MERCHANT
MILAN, ITALY

Exporter of European Forest Trees, Shrubs and Fruit Trees, Seeds.
Specialties Black and Honey Locust, Mulberry, Myrobolans.
Sole Agents for the United States and Canada.
JACKSON & PERKINS COMPANY, :: Newark, N. Y.
Correspondence Solicited.
Catalogue and Prices Free on Application.

PIERRE SEBIRE & SON

NURSERIES AT USSY, CALVEDOS, FRANCE

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, etc. Forest Trees, Ornamentals, Evergreen Seedlings, Roses, etc. The largest stock in the country. Prices very low. The very best grading and packing. Send for quotations before placing your orders elsewhere. Catalogue free.

Sole Agents for United States and Canada, C. C. ABEL & CO., 110-116 Broad Street, NEW YORK.

(Established 1859).

PEACH SEED

Write us for samples and prices. We have the VA. NATURAL and some lower grades of Peach Seed, all crop 1906.

W. W. WITTMAN & CO.,
P. O. Box 457. 117 Hanover St., Baltimore, Md.

L. F. Dintelmann, Bellevill, Ill.

Apple, Pear, Peach, Cherry and Plum Trees, Evergreens, Ornamental Shrubs, Roses, Gladiolae, Cannas and Dahlias. Nurserymen should try my Simplex.

Tree Baler—it does the work. PRICE $16.00.

When writing to Advertisers mention The National Nurseryman.

CHOICE HIGH GRADE

CHERRIES

JAPAN PLUMS
in all grades

McNary & Gaines

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Office: DAYTON, O. Nurseries: XENIA, O.

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NURSERYMEN IN THE SOUTH-WEST SHOULD GROW A STOCK OF

PISTACLEE OR GREEN ALMOND

Tree strikingly ornamental: 1 yr. seedlings, 6-12 inches. Nuts very valuable; perfectly hardy in Northern California.

CALIFORNIA GROWN PECANS.

1 yr. seedlings, 8-12 inches, from trees bearing immense crops annually of superior soft-shell nuts. Whether as direct producers, or as stock for grafting, this strain will be found of exceptional vigor. Prices are right, as our stock is large.

LEONARD COATES NURSERY CO., INC.

Morganhill, Santa Clara Co., California.

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12 Acres Peonies

QUEEN VICTORIA, FESTIVA MAXIMA, FRAGRANS (LATE ROSE)

For 100 and 1000 rates and other Varieties, WRITE

GILBERT H. WILE Wholesale Peony Grower

SARCOXIE, MISSOURI

WANTED

1000 PLUM STOCKS FOR BUDDING

GEO. R. ELLIOTT - Pittsburg Diamond Market

PITTSBURG, PA.

Forest Trees

Seedlings and Transpl, very cheap.

Millions of Alder, Maple, Sycamore, Birch, Beech, Hornbeam, Hazel, Common Ash, American Ash, Black Walnut, Privet, Canadian Poplar, Black Cherry, Common Oak, Red Oak, Pin Oak, Acacia, Sweet Briar, Limes, Thorn Quicks, Elm, Red Cedar, Abies, Arizonica, Silver Fir, Spruce Fir, Blue Spruce, Sitka Spruce, Bank's Pine, White Pine, Scotch Fir, American Arbor-vitæ, Europ and Japan Larch, Douglas Fir, etc., etc.

Apple and Pear Stocks, Briars, and other Stocks, ready for grafting. Transplanting, a specialty. All from sandy soil with excellent roots. Special prices for larger quantities. Best shipping facilities, via Hamburg, at lowest freight, Catalogues free. The largest nurseries in Germany. Shipments of 150 millions plants annually.

Halstenbek, Germany, is the centre of vast nurscry interests in Europe, which supply immense quantities of Forest Trees and other Nursery Stocks.

J. HEINS' SONS,

Halstenbek No. 26, nr. Hamburg (Germany)

PEACH SEED

FROM THE PEACH BELT OF NORTHERN OHIO CROP 1907 (SUN DRIED) FINE SHAPE. CROP SHORT. ORDER AT ONCE. FIRST COME, FIRST SERVED.

WRITE FOR PRICES

C. G. NIEMANN, Port Clinton, O.

The Capital Nurseries

Station A. TOPEKA, KANSAS.

J. H. SKINNER & CO., Proprietors,
Successors to PETERS & SKINNER.

We Offer

APPLE, CHERRY, PEACH, PLUM, KEIFFER and GARBER PEAR. FOREST TREE SEEDLINGS, MAHALEB SEEDLINGS, APPLE SEEDLINGS, KEIFFER PEAR SEEDLINGS, JAPAN PEAR SEEDLINGS, SHADE TREES, BECHTEL'S DOUBLE FLOWERING CRAB, FLOWERING SHRUBS, ROSES, VINES, GRAPES, CURRANTS, RHUBARB, ASPARAGUS.

SURPLUS LIST OF TECUMSEH NURSERIES.

In order to clean up the land, we will quote a close price on the following stock for fall:

2500 Catalpa Speciosa, 5 to 15 ft., fine stock.
800 Silver Maple, 6 to 8 ft.
50 Pin Oaks, 6 to 8 ft.
50 Laurel-Leaved Willows, 6 to 8 ft.
50 Gold Bark Willows, 6 to 8 ft.
25 Liquid Amber, 8 ft.
500 Car. Poplars, 2 yr., 6 to 8 ft.
100 Scotch Elms, 6 to 7 ft.
300 Am. Arbor Vitae, 15 to 18 in.
1500 Norway Spruce, 18 in. to 4 ft.
50 White Spruce, 2 to 2½ ft.
100 Cal. Privet, 3 to 4 ft., fine.
1500 First Class Peach, assorted varieties.
25 Purple Fringe, 5 to 6 ft.
40 Purple Leaved Barberry, 4 ft.
20 Eng. Elms, 2½ inch, Cal. 10 to 12 ft.
15 Purple Leaved Beech, 8 to 10 ft., heavy, stocky trees.

This Stock is all Clean and Well Grown.
Will make very low prices on the large Catalpa and Norway Spruce.

Address:

TECUMSEH NURSERIES,

CEDARVILLE, OHIO.

CLIMBING ROSES.

Two and one year. Fine plants.
Get my prices.

P. W. BUTLER, East Penfield, N. Y.

Your Trees May Die Before Spring

SPRAY THIS FALL

Are you fattening San José Scale for Spring Killing? Your trees may die and save you the trouble. Don't delay—apply the spray that kills 'em; that is absolutely guaranteed to kill San José Scale, Cottony Maple Scale, and all soft bodied sucking insects. "SCALECIDE" does it; cheaply, quickly, thoroughly. No harm to horses, harness, hands or clothing. Miles ahead of Lime-Sulphur or any home-made mixture. It costs less to buy "SCALECIDE" set down in your own dooryard than you can mix any dope yourself, because it will go twice as far with one-third the work.

"SCALECIDE" is a 92 per cent. oil compound and positively contains more oil and less water than any preparation

ever discovered. We can prove it no matter what any manufacturer may claim. We fearlessly challenge any person to show our claim above untrue.

It is simple to prepare and apply. No constant stirring. Simply fill your spray tank with water from the most convenient well or spring. Add one gallon of "SCALECIDE" to every 15 or 20 gallons of water. Start your agitator and you are ready for work. Our special free Booklet B will tell you the whole story. Write for it now. 50 gallon barrel at your station, if east of the Mississippi and north of the Ohio River for $25 cash; will make 800 or 1,000 gallons of spray. Order a barrel to-day. Smaller quantities if you wish.

B. G. PRATT COMPANY, Manufacturing Chemist, 11 Broadway, New York City.

PRATT'S "SCALECIDE" SOLUBLE PETROLEUM

Nursery For Sale

My Farmer Boy work so absorbs my time that I am offering my nursery for sale to some good man who would like to step into a paying business.

The Inspectors say my nursery is among the cleanest and largest in Illinois. There is enough stock matured and ready to sell, to clear a man fifteen hundred dollars by May 1st. I have a good trade both local and shipping and can assist the purchaser to get full run of the business.

No land or buildings for sale, but I am prepared to lease enough land to conduct the business if wanted.

A fine bargain and very liberal terms to the right man.

Call on OTWELL'S NURSERY

Carlinville, Ill.

Forest Tree Seedlings.

We are now booking orders for the following forest tree seedlings, all of our own growing, well graded, in sizes given below. Write us for quotations by the thousand, or in car lots. Our prices are right; so is our stock.

Black Locust,	sizes	8-12 in.	Catalpa Speciosa,	sizes	8-12 in.
		12-18 "			12-18 "
		18-24 "			18-24 "
		2-3 ft.	Russian Mulberry,	sizes	6-8 "
		3-4 "			8-12 "
Honey Locust,	sizes	4-8 in.			12-18 "
		8-12 "	Osage Orange,	sizes	4-8 "
		12-15 "			8-12 "
Box Elder,	sizes	4-8 "			12-18 "
		8-10 "			18-24 "
		10-15 "	Black Walnut,	sizes	12-18 "
		15-24 "			18-24 "

GERMAN NURSERIES,

CARL SONDEREGGER, Prop., BEATRICE, NEB.

Winfield Nursery Co.

Winfield, Kansas.

OFFER

Peach Seed, 50 bushels	
Black Locust, 3-4 ft	53000
2-3 ft.	130000
18-24 in.	535000
12-18 in.	325000
6-12 in.	240000
Mahaleb, French, 5-9 mm	00000
5-8 mm.	46000
4-6 mm.	100000
Mahaleb, home grown extra heavy	111000
5-8 mm.	227500
4-5 mm.	182300
2-4 sold	
Myrabolen French, 4-5 mm	3000
Myrabolen Home, 7-10 mm	5000
5-7 mm.	5000
4-5 mm.	7000
French Pear, 6-10 mm	50000
5-7 mm.	45000
Japan Pear, No. 1 3-16 in	16500
Quince (Anger) 5-7	30000
Apple, French Crab, 3-16 in. br	25000
3-16 in. St.	25000
No. 2, 3-16 in. br	30000
3-16 in. St.	295000
Cherry two years old, ¾ in. and up	2000
⅝-¾ in.	8000

Varieties—Dyehouse, Early Richmond, English Morello, Montmorency, May Duke, Ostheim and Wragg.

ALSO SHADE TREES IN CAR LOTS.

WINFIELD NURSERY COMPANY,

When writing to Advertisers mention the National Nurseryman.

Hardy Roses

AMERICAN GROWN—SUPERIOR TO IMPORTED

We have unsold at the present time the following varieties: **All Field Grown Plants,** grown in our Nurseries at Rochester, N. Y.

HYBRID PERPETUAL.

Anne de Diesbach
Baron de Bonstetten
Clio
Frau Karl Druschki
General Jacqueminot
John Hopper
Mme. G. Luizet
Mme. G. Bruant (Hybrid Rugosa)
Margaret Dickson
Marshall P. Wilder
Mrs. John Laing
Mrs. R. G. S. Crawford
Paul Neyron
Prince Camille
Ulrich Brunner

RAMBLERS.

Crimson Rambler
White Rambler
Yellow Rambler
Dorothy Perkins
Baby Rambler
Wichuraiana (The Type)

These plants are ready for shipment now. Prices on request.

Nurserymen **ELLWANGER & BARRY** Horticulturists

Mount Hope Nurseries, Rochester, N.Y.

Established 1874 Capital and Surplus $100,000.00

In the Heart of the Great Southwest

Our long growing season gives wonderful development, our shipping season great advantages.

Largest and best assorted stock in the South.

Teas Weeping Mulberry, Bungeii Catalpa, Roses, etc., in large supply and best values.

Our Trade List on application. Orders booked now for Fall or Spring delivery. Car lots a specialty.

Address, Texas Nursery Company

SHERMAN, TEXAS

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Co.

R. F. D. 2, McMINNVILLE, TENNESSEE.

Grape Vines

All Old and New Varieties

Immense Stock Warranted True

QUALITY UNSURPASSED.

Catalogue and Price List Free

Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,

FREDONIA, N. Y.

When writing to Advertisers mention The National Nurseryman.

The Most Potent Force

¶ In the selling of Nursery Stock, with the possible exception of high-priced salesmen, is **ADVERTISING.** This is a word to conjure with. We see **ADVERTISING** and recognize it as good—or bad. But it is not always possible to tell what would make the bad, good; nor is it easy to point out the winning quality of the good, and yet we recognize it. You may rest assured, however, that every piece of good advertising has had hard and intelligent work behind it.

A Nurseryman's Success

¶ Depends very largely on his advertising. Printer's Ink is to him a means of success. The largest stocks may be profitably sold by the use of right follow-up advertising. This is where

The Du Bois Press Comes in

¶ We are located thirty miles east of Rochester in the nursery section of Western New York. We know nurserymen and their requirements. Our service is at their command for a fair equivalent. Write us in regard to next price-list, circular or catalog.

THE DU BOIS PRESS

Newark, New York

Wanted Foreman to take charge of young Ornamental Nursery. Must be experienced, and good grower; a man who can show results Good wages, steady employment and a good position for a hustler. Give references, experience, etc.

BEAUDRY'S NURSERY CO., Inc.,
1747 Railway Exchange Bldg., Chicago, Ill.

When writing to Advertisers mention The National Nurseryman.

WANTED POSITION with reliable nurseryman in charge of sales department or general office work. Can handle the business from securing the salesmen to collecting the accounts. Have handled agency business for two of the largest nurseries in the country. South or Southwest preferred.

Reference from those with whom I have worked.

Address "X." care of **NATIONAL NURSERYMAN**

When writing to Advertisers mention the National Nurseryman.

PAINESVILLE NURSERIES

OFFER ONE OF THE LARGEST AND
MOST COMPLETE ASSORTMENTS OF

Nursery and Florists' Stock

in the United States, including Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Roses, Hardy Vines, and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

Field Grown Hardy Roses.

Largest blocks in America. Leading varieties of **Hybrid Perpetual, Moss, Climbers, Ramblers, Rugosa, Hybrids, etc.,** superior to imported stock for outdoor planting or forcing.

A Few of the Items We Have in Large Supply. **Special Prices on Early Orders.**

Ash, Birch, Willows, Poplars, Prunus Pissardi, Barberries, Deutzias, Syringas, Lilacs, Tree and Bush Hydrangea, Tree and Climbing Honeysuckle, Pyrus Japonica, Spiraea Anthony Waterer, Clematis large flowered and Paniculata Ampelopsis Veitchii and Tree Roses.

In addition to usual seasonable stock our greenhouses contained extra fine lots of **Palms, Araucaries, Ferns, Rubbers** and other decorative stock. Direct importations in large lots of **Hyacinths, Tulips, Lilies, Crocus, Narcissus** and other bulbs for Fall planting.

Capt. Hayward.

Pleased to price your list of wants or to show you our stock. Special inducements on car lots for Fall delivery or stored for Spring shipments. If you have not received our fiftieth anniversary descriptive catalog, send for it. Catalogs and Price Lists free.

53 Years. **1200 Acres.** **44 Greenhouses.**

THE STORRS & HARRISON CO.

PAINESVILLE, OHIO.

TREES

Fruit and Ornamental.

Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardiest Varieties. Largest and most varied Collections in America. Illustrated Descriptive Catalogue mailed **FREE** on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists,
MOUNT HOPE NURSERIES,
Established 1840. Rochester, N. Y.

"WANT SOME MORE?"

Well, CHEER UP! They're not all gone! We've still a good assortment of those "J. & P." home-grown, own-root CLEMATIS.---Large Flowering and Paniculata.---We're *Head-quarters*, in fact. And here's what a careful buyer has to say about our CLEMATIS this season: (He used to buy in Holland; buys from us now): "The CLEMATIS are certainly the finest I ever received, even from Holland, for three and four year old stock. It would be foolish to send across the water when you buy such quality right here.---E. HAENTZE, Fond Du Lac, Wisconsin, Nov. 27th, 1907.

Foolish, indeed, to pay more and get less. Write for prices, on ROSES, AMPELOPSIS, BERBERIS, PERENNIALS, SHRUBS ,CONIFERS, ETC.

JACKSON & PERKINS CO.,
NEWARK, NEW YORK
(Rose Growers and Nurserymen)
Wholesale Only.

The Geneva Nursery

Established in 1846.

HEADQUARTERS FOR

ORNAMENTAL TREES—Cut Leaved Weeping and Common Birch, Elms, Horse Chestnut, Norway, Silver and Sugar Maple, Lindens, Poplars, Evergreens.

SUPERB COLLECTION OF

Shrubs, Roses, Clematis, Phlox.

FULL ASSORTMENT IN

Apples, Pears, Plums, Cherries, Quinces, Currants, Gooseberries, Raspberries, etc.

SPECIALTIES.

PAEONIES—Large assortment of named varieties.
SPIREA VAN HOUTTE,
BARBERRY THUNBERGII,
TARTARIAN HONEYSUCKLE.

Fall trade list on application.
Special attention to dealers' complete lists.

W. & T. SMITH CO.
GENEVA, NEW YORK.

When writing to Advertisers mention the National Nurseryman.

BIOTA AUREA NANA,

(Berckmans' Golden Arbor Vitae).
50,000 shapely plants of this popular conifer for fall delivery, from 10 inches to 3 feet.

ALTHÆA MEEHANII
(Hibiscus Syriacus)

(New variegated single flowering Althaea).

Field grown
DOROTHY PERKINS,
CRIMSON RAMBLER,
and MARIE PAVIE Roses.
AZALEA INDICA,
CAMELLIA,
MAGNOLIA grfl.,
WIER'S MAPLE,
TEAS MULBERRY,
TULIP POPLARS,
all first class.
Send for prices.

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES, :: AUGUSTA, GA.
Established 1856 Over 450 Acres in Nurseries

When writing to Advertisers mention the National Nurseryman.

Heikes'—Huntsville—Trees

HUNTSVILLE

Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1907 and Spring of 1908, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest grower of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in Peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil. See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right. :: :: ::

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

HARDY
Herbaceous Plants

We have many acres of these Now Popular Old Fashioned Flowers. Will be glad to give Special Prices on Quantities

PICEA PUNGENS GLAUCA KOSTERI

THE TRUE BLUE SPRUCE

We have a fine collection of well-formed specimens, all grafted plants, from 12 inches to 6 feet high. Also handsome specimens of

WEEPING BLUE SPRUCE.

Choice Evergreens in the Finest Varieties
JAPANESE MAPLES

Ask for catalogue.

We are always pleased to receive visitors.

BOBBINK & ATKINS,

Nurserymen and Florists,
RUTHERFORD, N. J.

COMPARE

Goulds Sprayers

with others—notice the difference in weight, the seamless Brass Cylinders and large Air Chambers—the ease with which all working parts can be reached, and you will be convinced that they are superior to any.

Every Nurseryman and Florist

SHOULD HAVE A COPY OF OUR NEW BOOK

"How to Spray—When to Spray and What Sprayers to Use."

It contains many formulas for preparing spray mixtures—when to apply them—and describes our complete line of Hand and Power Sprayers. Sent free on application.

The Goulds Mfg. Co

Seneca Falls, N. Y.

New York, 16 Murray Street

(Cedrus Deodara var argentea)

Deodar Cedar on Lawn of Mr. W. T. Hood of W. T. Hood and Company. The Old Dominion Nurseries, Richmond, Va.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK

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Vol. XV. ROCHESTER, N. Y., DECEMBER, 1907. No. 12.

A SUCCESSFUL NURSERYMAN OF VIRGINIA.
W. T. HOOD & COMPANY, RICHMOND.

THE OLD DOMINION NURSERIES.

THE writer made his first visit to the city of Richmond recently, approaching it by the most attractive and interesting route. Coming from the South, if the traveler has time, the best way by long odds is to take the boat from Norfolk up that historic waterway, the James River. Along the banks of this stream are some of the most noted of the old Virginian estates, with their fine colonial residences.

The city of Richmond is much more attractive than many cities of the South, primarily because of the many objects of historic interest which it contains, but also because of the picturesque character of its site. The ground rises somewhat abruptly from the river's edge, and the city is located on a ridge through which the James River cuts in reaching a lower level, thus providing scenic beauty and industrial resources. This city is one of the wealthiest of the South, and this is evidenced by the superior quality of its public buildings and private residences.

Entrance to Residence from Cottage Ave. showing the avenue lined with Privet Hedge which is grown very extensively by W. T. Hood & Company.

THE OLD DOMINION NURSERIES.

The objective point of our visit was the nurseries of the W. T. Hood Company, which were found to be situated on the Lakeside trolley line, adjoining the beautiful suburb of Gunta Park, about two miles from the business portion of the city. The land surface in this region is gently rolling in character, and the soil represents the best type of Virginia loam. The proprietor of this enterprise has been established here in business for many years, beginning life as a laborer in the nursery of the former owner about forty years ago. During the intervening period he has built up a large and thriving business. His work has been constructive and of the substantial, reliable type.

BUILDINGS.

The visitor is struck at once by the substantial character of the office, a well built brick structure directly on the trolley and flanked by a lawn and numerous shade trees. The packing house and packing grounds are immediately adjacent in the rear. Associated with the packing house is the box factory with its lumber-cutting attachment. In the immediate neighborhood are also the fumigating houses of varying capacity. These fumigating houses impressed us as possessing features which might profitably be imitated by other nurserymen. They were of comparatively simple and inexpensive construction — a framework sealed with matched lumber and covered on the outside with a close-fitting coat of tarred building paper, well glued down, provided with double doors with well-calked seams. This box-like form in varying capacity, and made with special reference to the different formulas used, illustrates a very convenient and inexpensive type of fumigating house. We

A view across the lawn in front of the house with Teas' Weeping Mulberry in the foreground.

have seen houses of brick and stone not a whit more efficient.

One of the striking features on the home grounds is the avenues leading from one part to another attractively planted with shade trees. The principal avenues leading to the residence of the proprietor are bounded by well-kept hedges. Privet is one of the principal shrubs used for this purpose. The residence occupies the center of an area as handsome as may be seen in the best parks of the country, and treated from the landscape standpoint after the plan of the English parks. The trees are grouped in naturalistic style, few beds of flowers intrude themselves on the landscape, while the well-kept lawn makes a beautiful carpet, and a fine setting for the pleasantly arranged masses of trees and shrubbery. This lawn is several acres in extent, and the way in which the roads, walks and trees are maintained exemplifies the interest which the owner takes in the aesthetic side of country life.

Backyard view of house illustrating the point that houses may have good looking backs as well as fronts. W. T. Hood & Company.

THE NURSERY GROUNDS

In the farm lands surrounding the office and home place, about 150 acres are devoted directly or indirectly to the growing of nursery products. This area includes fine plantings of peaches, plums, pears, apples and cherries. In the latter section we were particularly in-

terested in noting a block of Japanese cherry stocks, which showed great vigor, and on which buds set during the summer appeared to have become well established. In addition to the home area there is a tract of 250 acres in Hanover County, some twenty miles distant, which has been used somewhat exclusively as a fruit tree propagating ground during recent years. Aside from the fruit growing features, we were struck with the large quantity of ornamental trees suitable for street, park and lawn planting. The maples in great variety predominate, while California privet, pin oaks and other park trees were found in large blocks. The W. T. Hood Company have also made a specialty of conifers for the South for some years, and have been eminently successful. The exhibits of this line of stock by this firm have attracted much attention at state and national exhibitions.

Office on Chamberlayne Avenue and Lakeside Car Line showing Packing Houses in background. W. T. Hood & Company, Richmond, Va.

The proximity to the city gives excellent opportunities for the securing of stable fertilizer at reasonable rates, and this, coupled with the use of legumes and commercial fertilizers, is used freely by the firm in preparation of their land for the growing of nursery stock.

View of Lawn. W. T. Hood & Company, Richmond, Va

Mr. Hood has an efficient staff of assistants who keep each line of business thoroughly checked up in a systematic and orderly manner. In the field he uses white foremen and mostly colored labor. The situation in Virginia with regard to labor does not differ materially from that which prevails in many other sections of the country. The ordinary labor is not reliable, difficult to secure, and often transient.

Block of Japanese Cherry Stocks, a new type of stock being experimented with by W. T. Hood & Company, Richmond, Va.

While the business of this company is largely retail, yet extensive sales of surplus stock are often made at wholesale. Mr. Hood is a valued member of the American Association of Nurserymen, and has rarely missed a convention for many years past. He is also a member of the American Pomological Society, of the Virginia Horticultural Society, and takes a keen and personal interest in the progress of fruit growing in his own state. As a member of the Southern Nurserymen's Association, Mr. Hood has done much to promote that organization, an important factor in the fruit growing of the South. This firm is one which enjoys the confidence and esteem of members, of friends at home, and associates in the nursery business.

NOTES ON THE BUSINESS AND THE CHARACTER OF THE SEASON

THE QUAKER STATE.

KEEP UP THE PRICE.

The past year has been an unusually prosperous one in the nursery line and shows that nurserymen are at last coming to realize that it costs money to grow a tree and therefore are trying to get a high enough price from the sale of their products to pay for the cost of growing and secure a slight profit besides. For too many years they have been working more for the love of the business than for the profit that was attached.

We notice a strong demand for ornamentals, showing that the people are beginning to be educated to improve their home grounds.

The extra expense in combating injurious insects and plant diseases is considerable, if it is well and properly done.

In handling and packing stock, the closed packing shed, where the stock is brought immediately after digging and remains until packed and shipped, is a great advantage.

The outlook, as seen from our standpoint, was never better. The only thing of which we have to complain is the price cutting of so many of our brother nurserymen. In many cases no sales are made by this method, as if there is a demand for trees, they will be sold and if there is not a demand, a cheap price will not move them.

HOOPES BRO. & THOMAS COMPANY,
West Chester, Pa.

A QUESTION OF TRANSPORTATION.

The fall season has been very similar to that of last year—not as heavy as the fall season of 1905, but a very satisfactory business running, with prospects of an exceptionally heavy trade the coming spring. The demand for ornamentals has been very strong, and for perennials, there has been a decided increase.

There also seems to be considerable interest taken by private planters throughout the country in the matter of keeping their places free from insects, as indicated by many inquiries as to the best methods of making and applying spraying materials, and the proper seasons.

In the matter of trade shipments, one thing has turned up this fall upon which we would be glad to have the experience of others. We find in a number of points that the agents of the railroad companies make a practice of turning over the freight shipments to express companies for delivery to the consignee, without notifying consignee of their being at the station, thus adding to the expense of delivery, and in several cases where it has been possible and usual for the consignee to call at the station and haul the freight. We are having this taken up and looked into by the P. R. R. at Philadelphia, as cases of this kind have occurred both in New Jersey and Massachusetts, for we do not know how widespread the practice may be.

ANDORRA NURSERIES,
By J. H. Humphreys,
Chestnut Hill, Pa.

SEASON SATISFACTORY AND NORMAL NEAR PHILADELPHIA.

Editor National Nurseryman:

Our fall shipping season usually runs well into December, consequently it is hardly possible to say at this writing just what will be the results for the entire shipping season, but our October shipments were about the same as last year, while November shipments to date will exceed the same period of last year, though just at this writing they are falling off a little, which is to be expected.

We handle a general line of ornamental nursery stock and we do not have any particular run on any one thing. The demand this year seems to be for the same general line as usual. The three to four feet shrubs are in smaller supply than usual and prices are ruling higher than last year, but there seems to be plenty of the smaller and lighter grades. Large shade trees two-inch caliper and up are very scarce, and we believe were pretty generally cleaned up this fall, at prices ranging from ten to fifty per cent. higher than last year, and the indications are that for spring there will be very few trees of this size offered and what sizes remain will bring even better prices. In our opinion it will be impossible to secure shade trees larger than two inches after the spring shipping season is over, as not only the larger grades are becoming exhausted, but the smaller grades are likewise being heavily dug.

There is usually a heavy sale of evergreens in the fall, but we made very few sales on these this year, and other large growers in this section advise us that their sale of evergreens was likewise extremely light this year, far below the general average.

We were fortunate in having a good growing season this summer, for while our neighbors some fifty miles away and beyond that, suffered from dry weather, we had ample rain during the summer, so that our plants made good growth. While we did not have too much rain at any one time, we always got a good shower just when it was needed, but it seemed to be of a local character.

Orders for spring are commencing to come in somewhat earlier than usual and unless the general conditions affect the nursery business, we expect a good spring season.

Like everyone else, we have found collections extremely difficult to make, and money tight, but so far we have not had to resort to making our payroll in checks, though it

seems very likely that we may have to come to it within a week or two, unless financial conditions change.

Very truly yours,
THOMAS MEEHAN & SONS, *Inc.*,
Thomas B. Meehan, Secy and Treas.,
Dreshertown, Pa.

OHIO.

JOBBERS AND CHEAP STOCK.

Up to this moment we have been too busy to even think of writing on any subject, but now at the close of the packing season, will venture to jot down a few thoughts and experiences on the trade of the season. The season has been a very busy one with us, and the demand for stock, especially for fruit trees, has been rather heavier than usual, while for ornamentals it has been rather light. Shade trees have been in good demand. Many lines are now exhausted and we will have to buy for spring trade. The demand for fruit trees, we think, is growing better, but there is still that demand for "cheap" stock, especially among the "jobbers" who are always wanting something for nothing, to sell for all that they can possibly get, or, in the "parlance" of the railroad magnates, for all that the "traffic" will bear. Their prices to the planter never come down, yet they expect the grower, who has to pay more for labor, and pay more to fight insects and injurious disease, every year, in order that he may produce the stock at all, to sell to them at less than the cost of production, in order that they may make the more money for themselves. They are the "fellows" that are making the most clean cash out of the business at all times. Just how to overcome this continual cry for "cheap" stock is a problem that will require much thought and careful study.

The labor question is also becoming of vast importance to the nurseryman, especially to us of the West. It is almost impossible to get competent help at any price, and many of us were handicapped this season by the lack of help, and many orders were delayed and in fact lost entirely. With labor $2.00 to $2.50 per day—and then do the work yourself—how can the grower expect to continue in business and keep up? Shall we still continue to grow and sell for less than cost, or shall we cease growing and enter some other more lucrative business? We have become so "disgruntled" with the labor problem and the continual cry for cheap stock, and the "Jewing" of the "jobber," that we have about concluded to quit business entirely and let some other fellow have it.

Now some experiences in shipping this season.—On October 26th we made three shipments by freight, all leaving here in the same car, to be distributed at Xenia, Ohio, to the proper lines, and be forwarded to destination, and none of them has reached destination yet. One shipment went to North Carolina, one to Illinois and one to Michigan.

Block of Budded Peach Seedlings. Peach Trees by the hundreds of thousands. Peach on left, Pears on right. W. T. Hood & Company, Richmond, Va.

Tracers are after them all. The Michigan party has wired us that stock has not reached him, and that it was therefore rejected, as he was leaving the city on that day and could not take it. Now how can a man reject stock before he sees or receives it, and what recourse have we? Goods were shipped at the purchaser's risk, released and charges guaranteed. The other two parties say put in a claim to the railroad company for the goods and they will soon "cough up" the stock. Our impression is that the purchaser will have to put in a claim to the company for the delay or damage, if any, in transit. Such things are very trying and annoying to the grower, and oftentimes lose him money, and we are quite sure that he cannot afford the loss, at the present prices, shrinkage, cost of labor and the additional cost of fighting injurious disease and insects. The price of stock must advance with the cost of labor, if we expect to continue in business and keep above water. Let the "jobber" try growing for a few years; get the experience and *see* what he will say at the end of a few years about this all-important (to them) question of cheaper stock. These are only a few thoughts and experiences as they come to us at this date, so if they are of any value to you, use them for the good of the *cause*. If of no value, consign them to the waste basket and there will be no hard feelings at all.

TECUMSEH NURSERIES,
Cedarville, Ohio.

MARYLAND.

A GOOD SEASON.

We are glad to note that we have had a good demand for stock of almost every kind we grow. We commenced shipping about October first and have been shipping almost daily since. We are now in the height of our shipping season. Ground has been moist enough to aid in getting stock with best possible roots and in good shape generally. We hope to sell pretty close on most things by end of spring delivery. We think our new farm, on which most of this year's plant is, will be a most decided advantage to us and our patrons in the stock for the future. We think we have made some progress in our method of cultivation of nursery stock.

FRANKLIN DAVIS NURSERY CO.,
R. A. Wickersham, Pres.,
Baltimore, Md.

INDIANA.

AN INDIANA CHERRY GROWER.

From our standpoint the year just ending has been quite good notwithstanding its unpropitious beginning. During March we had two or three weeks of beautiful, warm weather, which enabled us to get our stocks planted very early and in splendid condition. Beginning, however, April 1st with a hard freeze the weather was very cold and damp till June 1st. When the first cold came vegetation had started and our cherry buds were as much as two inches high on some stubs and there they seemed to stand for weeks. However, they came through without much loss, and this fall we dug many thousands of fine one year cherry trees. We secured a very fine catch of stands and got them budded in good condition and the stand seems to be good. Our two year cherry made up extra well—there being about eighty-five per cent. three-quarters and up. The lack of sufficient help has handicapped us considerably this fall, but the beautiful weather we had aided us greatly and we were able to get all of our orders off in good time. We are just winding up now.

Our sales this fall have been the largest on record. The demand for cherry trees was very great and we have practically sold all of salable size. All stock except plums has been in good demand.

The outlook before the little financial flurry was very bright. What effect that will have upon nurserymen remains to be seen. We hope it will all be over by spring.

H. M. SIMPSON & SONS,
Vincennes, Ind.

KANSAS.

ADVANCE PRICES—SPRAYING EXPERIMENTS.

We have heard considerable complaint in the last year, especially from parties who are selling nursery stock through tree dealers, that owing to the advanced price of growing nursery stock, they are finding it unprofitable. This, we think, is due to the fact that a large number of unreliable tree dealers buy stock at the lowest possible price, and are unfair to their customers, charging them different prices, and thus discouraging the ordinary tree planter. Since we started in business we have made it a rule to sell no nursery stock to planters through tree dealers, but sell directly through regular salesmen employed on either a regular commission basis or salary. As the cost of production has increased we have been able to advance the retail price of stock and to hold our trade very satisfactorily, and to increase the same annually.

We see no marked difference in the demand of specialties in the past year, unless it is an awakening to the planting of more groves; in fact, the people of the western country seem to have aroused to the matter of tree-planting more in the last two years than in the previous ten years. A bulletin lately issued by Secretary Wilson, of the Agricultural Department, showing that at the present demand for timber our hardwood will be almost gone in sixteen years, is being read with interest, and discussed by people in this section who very lately would not have been interested in such a subject.

We have had very satisfactory results with cherry trees by spraying with the Bordeaux mixture every ten to fourteen days. We are experimenting on Wooly Aphis, which we think is now found in nearly every nursery in the country and which at the present time causes the heaviest loss to nurserymen. Unless it can be successfully combated in the future the price of apple trees must advance very much. This year we shall fumigate both scions and roots and drill tobacco dust in the rows before planting grafts and seedlings.

We should be very glad to have suggestions from parties who are familiar with fumigation, as to the strength of fumigation that can be used without injury to the apple scions and seedlings.

We have nothing special in the way of new implements, except that one of our foremen, Mr. Charles Dunbar, has invented a seedling " topper " which we find very useful.

We think that we have made a very decided advancement in the last year in our systematic way of keeping invoice of nursery stock and handling the storage and packing in our storage building. Our storage building is so divided by 2 x 4 uprights that we can store all the varieties of nursery stock by using shelves, which are movable and are regulated by large bridge spikes. The bins are numbered, and the shelves lettered. Then our stock book is so arranged that each variety and size of stock is registered, showing just the bin where it is to be found. Orders are copied on the duplicate card board, which has space for marking upon it the varieties sold and the bins in which these will be found. This greatly facilitates the work of packing and is a great time-saver. We are more than ever convinced that plans of all systematic work must be done in the office.

Since erecting our storage building, we ship most of our sales in carload lots to a central point of distribution, from which we will ship either by freight or by express, as is most expedient.

We believe the outlook for the nursery business is good, and that much can be done by nurserymen working together.

We are under obligations to a number of nurserymen in the past year for their kindness in referring correspondence to us from parties who were trying to work between us and themselves.

THE WINFIELD NURSERY CO.,
Per J. Monerief,
Winfield, Kansas.

TRANSPORTATION SERVICE UNSATISFACTORY.

The fall business is closing in this part of the country and we are now busy taking up and preparing for stock to carry over winter for the spring trade. The demand this fall has been especially good on fruit trees of most kinds, and apple especially in the heavier grades. This demand no doubt comes from two sources: first, the extreme scarcity of first-class apple trees throughout the whole country; and, second, from the high prices now ruling for the fruit, making apple orchards a good investment.

Our worst drawback this season has come from poor railroad service. Shipments have been delayed in transit, taking twice the usual time to move them. This was occasioned no doubt in the West by the railroads having a congestion of freight and being short of motive power to move it.

The outlook for spring sales is good, if inquiries amount to anything, for we are having heavy inquiry for apple and some lines of forest seedlings which seem to be pretty well picked up already so far as the West is concerned. Just what effect the financial flurry that is sweeping the country will have on spring sales, remains to be seen, and if it hangs on till near the first of the year, it may make material changes in the spring business. Its effects have already been felt this fall on the deliveries, and the western nurserymen will not know just where they stand until the fall business is cleaned up. Yours truly,

E. P. BERNARDIN,
Parsons, Kansas.

MINNESOTA.

OUTLOOK BRIGHT—THE PACKAGE QUESTION.

The season of 1907 has, on the whole, been a very satisfactory one. Sales have kept up with the promises offered earlier in the season. The cool, wet summer did not give the best conditions for growing and we have had a few failures as a result, especially in those things wherein the first season's growth is depended upon to produce a marketable article.

The outlook for business is and has been good. The financial flurry has made itself felt in all the agricultural districts, and money is very tight at present. Naturally, if conditions do not become better, there will be difficulty in pushing sales this winter. The crops have been good in the main, but the marketing of them is badly restricted at this time.

We are each year more impressed with the fact that the question of box material for nurserymen will be of paramount importance. It seems as though, in view of the increasing price of lumber, the present system of packing in boxes is going to be too expensive to keep within the bounds of a reasonable increase in the price of stock. It certainly is approaching that time. When the cost of even poor lumber is doubled, what are we going to do? Of course, the wholesale nurserymen can ship in bulk as they have done, and some of the retail business can be handled in this way, but not all.

It seems to us that the bale must be used more and more. If so, facilities must be perfected for baling trees in large quantities. Machinery to do it quickly, cheaply and without injury must be invented. More than this: if the bale is to be used, what about freight rates? The tariff on baled trees is almost prohibitive as it now stands and should be transferred to the third-class list. Can the nurserymen secure this tariff? Respectfully,

R. D. Underwood, Secy. THE JEWELL NURSERY CO.

TEXAS.

STOCK MOVING FREELY.

The fruit crop, of all kinds, was about the poorest ever known, this year. Usually, this hurts the sale of trees, but it did not seem to make any difference this year. The cotton crop is also poor, on account of long drought. In spite of these, I have more orders on file, both retail and wholesale, than ever before. The per cent. of roses sold has about

doubled any former year. There is quite a demand growing up for some native shrubs, etc.

I built a packing house two years ago, and am still wondering how we got along for thirty years heeling trees in open ground. It will pay any nursery to build, so as to work every day and at night.

Diseases or insects are seldom mentioned. Unless a national law is enacted, our State Nurserymen's Association will try to have our state inspection law amended or enlarged to include greenhouses.

The warm winter last year, preceded by an early freeze, sickened nearly all bearing peach trees except in northern part of state. The final result is not settled, nor the result on the trade or demand; but there are many encouraging features.

The short cotton crop has perhaps stopped the rise in cost of labor. About half the fillers in packing house are women and grown girls. I am pleased with the experiment. It promotes order and attention. F. T. RAMSEY,

Austin, Texas.

FLORIDA.

NORTH FLORIDA OPTIMISTIC—GROW VIGOROUS TREES.

As evidenced by our present season's business the outlook for the nurseryman is most promising. Of course this is an opinion based on an acquaintance with the southern nurserymen only and may not represent northern conditions. We raised 100 to 200 per cent. more stock for this season's sale than we ever raised before. We have experienced not the least difficulty in disposing of it at very satisfactory prices. We find to-day that the same old time-worn motto, "Not how cheap, but how good," is applicable. We find that it is a great deal easier to sell a high grade tree at a high price than a low grade tree at a low price.

We carry mostly a wholesale trade, though we hold a small retail trade through catalogue. At present we are specializing to a greater or less extent on grafted and budded pecans of the choicer varieties. We find that the soil here is especially adapted to the growing of this tree in a commercial way. We find that here a pecan tree can be grown and put on the market for very much less than it can be grown anywhere else in the country, as far as we can judge. Here we can raise a tree in two years that will easily grade two to four feet, whereas it takes from three to five years to raise the same grade tree in other localities. The younger vigorous two-year-old, will, in our judgment, prove the superior of the four-year-old of the same grade.

We find that quite a number of other fruit and ornamental trees seem to be especially successful on this soil. We get a very long growing season here and can raise a fine grade of stock in a very short time.

We find a very ready sale for shade trees in this section and will go into that line rather heavy the coming year. The people of the South are awakening to the value of the thrifty, nursery-grown shade tree for avenue, park or individual planting. We firmly believe that during the next few years there will be millions upon millions of shade trees planted in the southern cities and villages.

In conclusion we would say that the man to-day who owns a well established nursery business and is running it on a square, honest, progressive basis, is the most blessed man in these United States.

ARCADIA NURSERIES,
J. H. Girardeau, Jr., Mgr.,
Monticello, Fla.

Correspondence

THE PROPOSED NATIONAL INSPECTION LAW.

To the Members of the American Association of Nurserymen and Others Interested in Nursery Work:

I deem it proper to remind my friends of the tree-growing fraternity that a committee was appointed at the last meeting of the American Association of Nurserymen to consider ways and means of securing greater uniformity in the inspection of nursery stock and interstate shipping regulations. As chairman of this committee, I am most anxious to obtain every helpful suggestion that it is possible to secure. I want the nurserymen of the country to offer such suggestions to me personally or through the medium of the NATIONAL NURSERYMAN. We desire a full and free discussion of the principles underlying such action as our committee is authorized to take, and the methods whereby a law of national scope may be framed and put into force.

Let us start the campaign now, and let us have in each issue of the NATIONAL NURSERYMAN observations and suggestions from nurserymen throughout the United States. These observations will naturally be colored by the point of view of the writer, depending upon his location and surroundings. We have a difficult task before us, but let us attack it with vigor and determination.

Yours very truly,

Berlin, Md. ORLANDO HARRISON.

SCALECIDE BY THE MANUFACTURER.

We notice in the September issue of the NATIONAL NURSERYMAN an inquiry in regard to the treatment of nursery stock for San Jose Scale by J. L. D., of Westfield, Indiana.

We believe that nothing has proven more effective than the kerosene emulsion, such as you recommend, for application during the growing season, but might it not be well to impress on the nurseryman in general that a thorough application of "Scalecide" in the fall and spring of the year will obviate any necessity of spraying during the growing season?

If you will refer to page 8 of the Bulletin of Immediate Information No. 3, November, 1906, issued by the Connecticut Experiment Station at New Haven, on "Fumigation and Treatment of Nursery Stock," Prof Britton says that "Scalecide" has given satisfactory results and on account

of ease of preparation, it is preferable to the lime and sulphur. It is especially adapted to nursery purposes, as it leaves no white coating on the trees. "It forms no spots on painted buildings and fences and is not unpleasant to handle."

You may have noticed the November issue of the Philadelphia Farm Journal, which says that lime-sulphur has proven a failure in forty-nine cases out of fifty and advises the use of "Scalecide" or some other soluble oils. We hope that the time will soon come when the use of "Scalecide" can be advocated by anyone without their motives being questioned.

The officers of the Connecticut Experiment Station in their inspection of orchards are giving the nurserymen the privilege of *either fumigating or dipping in "Scalecide."* Don't you think that New York might grant the same privilege? It is certainly very much less dangerous and we believe fully as effective.

New York. B. G. PRATT.

LEGISLATION.

National Nurseryman Publishing Co.,
City.
Gentlemen:

As chairman of the Legislative Committee of the American Association of Nurserymen, I beg to make a short report on the matter of laws of the states of South Dakota, Oklahoma, Wisconsin and Wyoming affecting the nursery interests, and in which many members of the Association are interested.

At the Detroit Convention, the Legislative Committee was instructed to arrange for a test case in South Dakota. That matter is started, but like all legal matters, moves slowly, and no definite decision can be reported at this date, but the case is being pushed along as rapidly as possible, and it is hoped that a definite decision may be reached soon.

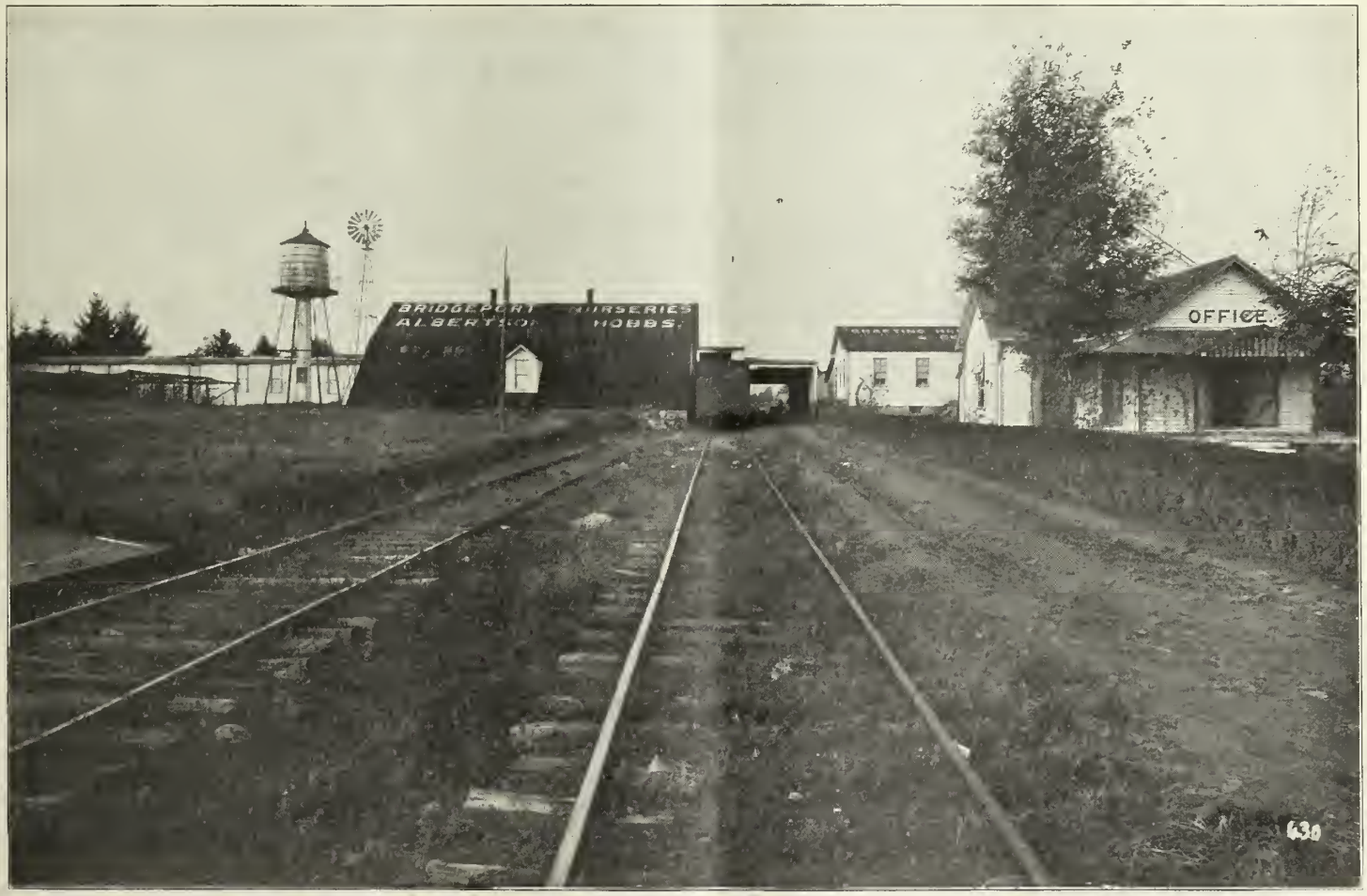
The committee had no instructions to arrange for test cases in the other states, but under instructions from the Executive Committee, has secured a written opinion as to the validity of the statutes enacted by the states of Wisconsin, Oklahoma and Wyoming, and it is the opinion of our attorneys that many important points covered by those statutes are unconstitutional, and therefore invalid, as an attempted restriction on interstate commerce.

It is thought by our attorneys that it would be best to defer any test cases in these three states until a decision is secured in the South Dakota case, believing that if the South Dakota decision is favorable to our interests, that we will then be in better position to attack the laws in the other states mentioned. If the South Dakota decision is favorable, and the Executive Committee so decides, the Legislative Committee will be prepared to at once arrange for test cases in the other three states.

The South Dakota matter is being well handled by our attorneys, who are leaving nothing undone to push the case to as speedy a conclusion as possible. Yours truly,

WM. PITKIN.

Rochester, N. Y., Nov. 27th, 1907.



General view of home grounds of C. M. Hobbs & Sons proprietors of the Bridgeport Nurseries and successors to Albertson & Hobbs The photograph shows the office, the graft house, the packing room with siding and the commodious store room on the left.

The National Nurseryman

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ROCHESTER, N. Y., DECEMBER, 1907.

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Editing Report—J. Horace McFarland, Harrisburg, Pa.
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STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

Western Association of Wholesale Nurserymen—President, A. Willis, Ottawa, Kansas; vice-president, George Marshall, Arlington, Neb.; secretary, E. J. Holman, Leavenworth, Kansas.

Southern Nurserymen's Association—President, Chas. T. Smith, Concord, Ga.; vice-president, C. M. Griffing, Jacksonville, Fla.; secretary-treasurer, A. I. Smith, Knoxville, Tenn. The next meeting will be held in Atlanta, Ga., August, 1908.

Oklahoma Association of Nurserymen—President, J. A. Lopeman; vice-president, J. P. Taylor; secretary and treasurer, C. E. Garee.

Texas Nurserymen's Association—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Thompson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

NATIONAL INSPECTION LAW.

We have pleasure in calling attention to the very important matter brought before the members of the American Association in the communication of Mr. Harrison, which appears in another column. These questions of uniform inspection and regulations facilitating the interstate shipment of stock have been before the Association for some time. It now behooves the members who are interested, and every member ought to be, to aid the committee by suggestion and advice. It is not probable that final action can be reached this year, but it is highly important that a beginning should be made. The nursery interests of the country are suffering. The only men who can relieve the situation are the nurserymen themselves working in conjunction with the Associations of Experiment Station Entomologists and Horticultural Inspectors. No matter of greater moment has come before the Association these many years, and members are urged to give it personal and careful consideration.

THE FOREIGN APPLE TRADE.

Assistant Pomologist W. A. Taylor, U. S. Department of Agriculture, is authority for the statement that "The general outlook for sustained and increased foreign demand for our fruits continues good, although adverse tariff rates and inspection requirements in certain countries, notably Germany and France, operate to retard normal development to some extent." It is interesting to note that for the twenty-year period from 1887 to 1907 the exports of fruit to Europe have increased approximately 540 per cent. On the other hand, the imports have increased only 80 per cent.

Mr. Taylor points out, however, that large losses in our exports are sustained every year by faulty packing. In some consignments as high as 40 per cent. of the barrels are recorded as "slack" or "very slack." This means a serious diminution in selling price. It appears that the United States furnishes about two-thirds of the apples shipped to European markets from this side, and Canada one-third. Not so gratifying, however, is the fact that in recent years the Canadian apples have commanded somewhat higher prices.

EFFECT OF SMOKE ON PLANTS.

A very important question in city tree planting work is, what trees will stand the ill effects of the smoke best? In manufacturing towns and in regions where soft coal is used extensively, this is a very important point. Trees suffer in different ways from the influence of smoke more or less poisoned with the fumes of gases. Many instances of the influence of these gases, and the general injurious effect of smoke are to be seen near cement plants, sulphite works, and other factories where gases are discharged more or less freely.

Among the trees which are most sensitive to the influence of smoke are conifers and broad-leaved evergreens. The deciduous trees are less injured because they are more

or less dormant in winter, the period when the smoke is usually most abundant.

Among those trees which endure smoke best are the linden, ash and sycamore, and among the shrubs and vines which are most immune to its ill effects are Virginia creeper, wistaria and laburnum. It is to be hoped that the day is not far distant when the smoke nuisance will be greatly abated in cities by supplementary consuming devices.

CHRYSANTHEMUM MEETINGS.

The annual meeting of the Chrysanthemum Society of America was held November 6th in New York City. The quarters provided were quite inadequate to the needs of the exhibition. This society numbers 80 members in good standing. It is not an excellent commentary on the interest of the officers of the society to note that both secretary and treasurer were absent. Among the interested and active members present were A. J. Lovelace, president; Arthur Harrington, C. H. Totty, Elmer D. Smith and William Duckham.

Speaking of chrysanthemums, a very attractive exhibit of these flowers was made at the forcing houses of the Horticultural Department of Cornell University, November 5-7. Some sixty varieties were shown in pots and as cut flowers. The exhibit included excellent representatives of the different types, some of which exceeded in size and quality any that have been seen in Central New York up to this time. The plants were grown by W. H. Griffiths, former gardener to the Department of Horticulture, and now a special student in the College of Agriculture. These plants were nearly all grown to single stems by the box method. Very few of them were grown in pots or benches.

PARCELS POST AND CATALOGUE POSTAL RATES

An important event occurred in Philadelphia on October 26th. This was a dinner given in the Union League Club by invitation of Mr. W. Atlee Burpee, seedsman and plant grower, of Philadelphia. The guest of the evening was the postmaster general of the United States, the Honorable George von L. Meyer. The purpose of the banquet was to discuss the parcels post, and allied questions. The postmaster general spoke in favor of a reduction in the rate on parcels post. He said, in part:

"What I am attempting to do is to abolish an injustice and one might even say an un-American practice. I refer to the policy of charging our own people sixteen cents a pound, with a weight limit of four pounds, while giving a rate of twelve cents a pound, and a limit of eleven pounds on packages destined out of the country to twenty-two foreign countries. Consequently I shall recommend the same rate and the same limit of weight for parcels, whether intended for points in this country or abroad, which means a reduction of four cents a pound and an increase in the maximum weight to eleven pounds. This certainly is only equitable.

"Heretofore the opposition to the extension of the parcels post has come in the first instance from the express companies, and then from the retail merchant and the country storekeeper, the fear in his case being that the mail order house would derive a benefit to his own advantage. Now, I can disarm the criticism of the retail country merchant and storekeeper by the fact that I shall recommend a parcels post system on the rural delivery routes, a special rate to be charged on packages for delivery from the distributing office of the rural route, or if mailed by a patron of any rural route for delivery to a patron on the same route or at the distributing office of said route. The rate would be five cents for the first pound and two cents for each additional pound up to eleven pounds. This will be a great boon to the farmers and others on the rural routes because when they are able to order their goods by telephone or postal card, it will relieve them of the inconvenience of going to town to obtain the necessaries of life."

There were several other prominent speakers, and among them J. Horace McFarland, who took occasion to present the case of the catalogue men, who are now paying an exorbitant rate for the dissemination of their catalogues. His plea was that these should come under third-class mail, and be forwarded at regular pound rates. It is hoped that the agitation in this direction will result in substantial reforms.

Fruit and Plant Notes

NEW VARIETIES.

Among the new varieties of apples regarded as promising by Pomologist William A. Taylor, of the Department of Agriculture, Washington, are Magnate Apple, a handsome, medium sized fruit, brilliantly colored with red, and of excellent keeping quality; Oliver Red, another apple of about the same size and somewhat the same coloring. Both of these varieties seem to be well adapted to the Arkansas region and the Southwest. Among other varieties mentioned by Mr. Taylor are Early Wheeler Peach, Banner Grape, Josephine Persimmon and Chappelow Avocado. Mr. Taylor draws attention to the good qualities of four varieties of pecans. These are the Alley, Teche, Georgia and Delmas.

HARDY APPLES.

Among the hardy attractive apples suited to northern culture is the Baxter. This originated in the upper St. Lawrence region, and is grown to a considerable extent north of the St. Lawrence in western Quebec and eastern Ontario. The fruit is large, handsomely colored with deep red, rather coarse in flesh and of fair quality. The tree is a vigorous, spreading grower, and quite hardy. The principal criticism it is fair to make on this apple is that it is not as reliable a bearer as the Fameuse, indigenous to and successful in the same region.

Smokehouse. This apple, although an old one, is attracting renewed interest in southern Pennsylvania, where it succeeds very well. Its lack of brilliant coloring is its principal defect, and this unattractive exterior is empha-

sized when grown in the lower levels; but if cultivated on the higher elevations with good exposures, the fruit colors much better. The flesh is crisp, juicy and of good quality. In this respect it resembles York Imperial very closely.

SHALL THIS ASSOCIATION ATTEMPT TO ESTABLISH STANDARD SIZES AND GRADES FOR FRUIT TREES?

ABNER HOOPES.

We are all aware that in some sections the same varieties grow taller and not large in caliper, while in other sections they grow shorter and stouter, so that a tree that is 6 to 7 feet high would be only 5/8 to 11-16 caliper, while the same variety grown in another state would be 3/4 to 7/8 and not over 4½ to 6 feet in height. A few years ago we ordered some Seckel pear trees from Western New York; they were sold as 3/4s and up. Imagine our surprise when they arrived to find they were not over 3½ feet in height.

We sell most of our trees at retail and by height. Our first-class pears are 5 to 7 feet, so of course we could not use these short trees, which put us to a very great inconvenience.

I state this case as an example of the necessity of having an established grade if it can be arranged. The only way this could be done would be to select the short growers like the Seckel pear and group them in a section by themselves. I think this could be done by establishing a grade for apples, pears, plums and sweet cherries, three-fourths and up, 5 to 7 feet, excepting short growers, like Seckel, Worden Seckel, Manning's Elizabeth, Summer Hagloe, Primate, Summer Pearmain, Lady Apple, etc., that might be graded up 4½ to 6 feet, three-fourths and up. It is hardly worth while for me at this time to go farther into the matter, but if the few suggestions I have made meet with the approval of the association, it might be referred to a committee to try to arrange a standard of sizes and grades and report to the next meeting of the association for their approval or rejection.

THE YOUTH'S COMPANION CALENDAR FOR 1908.

The publishers of The Youth's Companion will, as always at this season, present to every subscriber whose subscription ($1.75) is paid for 1908 a beautiful calendar for the new year. Four paintings by artists of distinction are reproduced in the four panels of the calendar by a process of color-printing which has been recently brought to remarkable excellence. The first of the panels is an inspiring sea scene, full of the beauty of the wide ocean and sky, and the joyous rush of the homeward-bound ship. The second is a fine cattle piece. The third pictures an old mill at Zaandam—typically Dutch in treatment. The fourth panel depicts a "Girl with Roses"—a charming face, exquisite in color and expression. All the pictures are worthy of preservation long after 1908 has passed into the good old times.

The Hustling Tyler Brothers.

Appreciating the fact that their present land holdings were entirely inadequate to accommodate their rapidly growing nursery business, the Tyler Brothers have closed a deal for forty acres of the McMasters farm at Kimberley, which now gives them a 400-yards frontage on the railroad, a thing very much needed for the convenient handling of a big nursery business such as these worthy people are fast bringing to their firm. Their two farms, the one at Kimberley and the other on this project, gives them a diversity of soils, something absolutely necessary for the successful culture of the great variety of plants which it is their desire to handle. On the Kimberley farm they have the heavy clay soil, on the farm here, the sandy soil. Thus perfectly equipped with soils suitable for the growth of all kinds of plants, and railroad facilities for the quick and proper handling of their goods, there is nothing left in their needs to make of the Tyler Brothers Nurseries the greatest in this intermountain country, just what their ambition seems to crave. And the people who come here to make their homes and grow orchards can congratulate themselves that their needs in the tree and orchard line can be supplied from nurseries so close to home, where, if they wish to do so, they can always see exactly what they are getting, and where, too, if "things" are not just exactly according to "Hoyle" they can go and have it made right.

Success to you, Tyler Brothers, and may you continue to grow till your nurseries are the pride of this entire country.—Rupert Record, Idaho.

Obituary

O. B. Hadwen.

There died at Worcester, Mass., early in November a man whose name will long be remembered in connection with pomological and floricultural work in New England. Mr. Hadwen lived a long and useful life. He had passed the 80-year mark, but up to almost the day of his death retained his keen interest in matters horticultural. For many years he was president of the Worcester Horticultural Society. He also held the same position for a number of years in the Massachusetts Horticultural Society, of which he was a life member. He was also vice-president and a life member of the American Pomological Society. He took a keen interest in the scientific side of fruit growing, and was indefatigable in his efforts to advance a knowledge of fruit culture and promote an interest in it.

By his will the city of Worcester and the horticultural world at large is benefited. He gave to Clark University his residence and grounds, consisting of twenty acres, assessed for $20,000. This provides Clark University with experiment grounds for its nature study work, and virtually gives to Worcester another park. He also donated the sum of $1,000 to Clark University for the specific purpose of decorating its grounds with ornamental trees and shrubs.

D. M. Ferry.

The head and founder of the noted Detroit seed house passed away late in October at the age of 73. Mr. Ferry was born in Western New York, was self-educated and his remarkable career was due to keen business instincts, perseverance and tremendous industry. In addition to building up one of the largest seed houses in the world he promoted many enterprises of public service in Detroit.

A. P. Glen, a retired nurseryman, died October 30th, 1907, at Medina, O. He was a brother of Eugene and John G. Glen (Glen Brothers), of Rochester. At Havana, Ill., he was first to grow Osage Orange north of Mason and Dixon's Line during the Rebellion. He made a fortune in the early sixties in growing this hedge plant.

The R. Warnock Co. makes the claim that their tree paint not only prevents but it cures Pear Blight. This is important if true, and it will pay National Nurseryman readers to write them for further details. This ad will be found in this issue.

CULLED PARAGRAPHS.

Columbus, Ga.—A large water tank fell from its supports at the East Highlands Nursery, September 25th, a distance of eighty feet to the ground and, being full of water, the flood swept everything in front of it, including a brick wall. Only the day before the collapse, John Foley, son of the proprietress of the nurseries, climbed to the top of the tank to inspect it and reported it safe.

W. H. Von Bayer, of the United States Forestry Department, is making preparations to establish an extensive nursery for forest trees just outside of Chatham, Mich. Several species of pine and spruce will be propagated, and the first lot of 2,000,000 seedling trees will be used for reforesting some of the sandy soils near Coalwood, in that county.

Columbus, O.—Charles W. Mally, state inspector of orchards and nurseries, has resigned, and will shortly go to South Africa to enter similar employment under the British government. He has spent several years in Cape Colony.

CATALOGUES RECEIVED.

Barbier & Co., 16 Route D'Olivet, Orleans, France. Nursery trade list for autumn, 1907, and spring, 1908. Fruit tree stocks, young conifers, ornamental trees and shrubs, etc.

W. T. Hood & Co., Richmond, Va. Descriptive catalogue of fruit and ornamental trees, grape vines, shrubs, roses, etc.

Croux et Fils, Chatenay, Seine, France. Trade list of herbaceous Chinese peonies for fall, 1907.

The Winfield Nursery Co., Winfield, Kans. Advance list, August 15th, 1907.

Oak Lawn Nursery, Huntsville, Ala. Wholesale price list for the fall and winter of 1907.

Frederick W. Kelsey, 150 Broadway, New York City. A booklet entitled "Nature Menders."

Elnora Nurseries, Elnora, Ind. Surplus list, fall, 1907.

The Economy Mfg. Co., Wellington, Kans. A booklet entitled "A Howling Success."

The Austin Nursery, Austin, Tex. Surplus list of prices to nurserymen only, fall, 1907.

Jackson & Perkins Co., Newark, N. Y. Pamphlet on clematis.

Thos. Meehan & Sons, Germantown, Pa. Price list of seeds, trees, shrubs and fruits.

Peter Henderson & Co., 35 and 37 Cortlandt street, New York. Florists' wholesale catalogue.

MR. HEIKES ON FRUIT GROWING IN ALABAMA.

The interest in this state in planting orchards and strawberries for commercial purposes still continues, with an increased demand for apples, Japanese persimmons, figs and pecan trees. Some varieties of apples are proving to be well adapted to certain localities. Of much greater importance is the widely extended planting throughout the South of pecan trees, both for the home and the market. There would be even a greater number of pecan trees planted if the supply of the desired size of the grafted and budded sorts was not so limited. This short supply is likely to continue because of the difficulty nurserymen find in the propagation of the improved varieties.

I had the pleasure last fall of attending the meeting of the National Nut Growers' Association at Scranton, Miss., and was agreeably surprised at the large attendance. Excellent papers were read, and highly edifying discussions were held on pecan culture. Nearly all the southern and several northern states were represented, as was also the Agricultural Department at Washington, and the enthusiasm manifested augured well for the future of the pecan industry.

W. F. Heikes,
Pres. Ala. Hort. Society.

WESTERN NEW YORK.

We are just ready to wind up our fall business. It is safe to say that the nurserymen had a very successful season as to making good sales and getting good prices and the weather being favorable. I think after next spring sales very little stock will be carried over except plum. A good many varieties are very scarce now. Apple, cherry, quince and standard pear are bringing good prices. Plums are not bringing good prices, but it looks now as if by spring plums will be in better demand and prices will be better. Taking it all in all, nurserymen are well satisfied with the past season's business, also the outlook for the next few years at least. We have not been troubled the past season with any insects or crown gall—wooley aphis. We all look for a good spring trade.

Jas. M. Kennedy.

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Are you fattening San José Scale for Spring Killing? Your trees may die and save you the trouble. Don't delay—apply the spray that kills 'em; that is absolutely guaranteed to kill San José Scale, Cottony Maple Scale, and all soft bodied sucking insects. "SCALECIDE" does it; cheaply, quickly, thoroughly. No harm to horses, harness, hands or clothing. Miles ahead of Lime-Sulphur or any home-made mixture. It costs less to buy "SCALECIDE" set down in your own dooryard than you can mix any dope yourself, because it will go twice as far with one-third the work.

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It is simple to prepare and apply. No constant stirring. Simply fill your spray tank with water from the most convenient well or spring. Add one gallon of "SCALECIDE" to every 15 or 20 gallons of water. Start your agitator and you are ready for work. Our special free Booklet B will tell you the whole story. Write for it now. 50 gallon barrel at your station, if east of the Mississippi and north of the Ohio River for $25 cash; will make 800 or 1,000 gallons of spray. Order a barrel to-day. Smaller quantities if you wish.

B. G. PRATT COMPANY, Manufacturing Chemist, 11 Broadway, New York City.

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Doings of Societies

Northwest Fruit Growers' Association.

This association composed of fruit growers of the Northwest Pacific Coast will hold its annual meeting in the city of Vancouver, B. C., December 4th, 5th and 6th. An attractive programme has been prepared, which will include speakers from the experiment station at Ottawa, from California, Utah and Idaho.

Preparations have also been made for an exhibition of fruit, including boxed apples and displays of fruit arranged for commercial purposes. The officers of the association are E. L. Smith, Hood River, Oregon, president; Maxwell Smith, Vancouver, B. C., secretary.

Various State Meetings.

This is one of the chosen months for state horticultural meetings. Particularly is this so in the Middle West. We have before us programmes of the Minnesota State Horticultural Society, meeting in Minneapolis, December 3rd to 6th, inclusive; Indiana Horticultural Society, meeting in Indianapolis, December 4th and 5th; and the Illinois State Horticultural Society, meeting in Champaign, December 11th, 12th and 13th. Each of these societies in addition to the literary programme has a premium list covering fruit exhibits. Each had prepared a very interesting programme. The officers of these societies are as follows:

Indiana—H. H. Swain, South Bend, president; W. B. Flick, Lawrence, secretary.

Minnesota—L. D. Leonard, Minneapolis, president; A. W. Latham, Minneapolis, secretary.

Illinois—George J. Foster, Normal, president; W. B. Lloyd, Kinmundy, secretary. In the Illinois programme Dr. S. A. Forbes will give a report of nursery and orchard inspection in that state.

Editor of the National Nurseryman,

We have made a very nice sale from our advertisement in the NATIONAL NURSERYMAN already, and hope to make another one by the next mail.

Yours truly, E. B. Frantz & Co.

The Largest Stock of **For Fall, 1908**

CURRANTS and GOOSEBERRIES Standards,

Worked on strong and straight Ribes aureum stems, you find in

B. MULLERKLEIN'S Nurseries,

KARLSTADT (Bavaria-Germany.)

Please ask for prices.

OCEAN FREIGHT RATES.

A very useful bulletin recently published by the Bureau of Statistics, U. S. Department of Agriculture, bears the above title. This covers the whole question of ocean transportation. Tables are given showing the freight rates which have obtained for the past thirty years. The freight rates from different points are detailed, and this information covers all classes of farm products, as well as manufactured articles. Such interesting information as rates from New York, Boston, to European ports are given in terms of maximums, minimums and averages. Methods of transferring cargoes are also discussed. This bulletin, No. 67, may be secured by addressing the Bureau of Statistics. To the importer or exporter of nursery products or fruit products it will prove of real service.

Mendham, May 10, 1907.

Enclosed please find $1.00 for one year's subscription of the National Nurseryman. Thanking you for the Sample Copies I have received, I find it quite valuable to the Nurseryman.

Yours truly,

New Subscriber J. D. Lindsley, Mendham, New Jersey.

Nurserymen and Orchardists

If you want the best, cheapest, easiest applied and longest lasting protection against Rabbits, Mice, Borers, San Jose Scale, etc., also an absolute never failing cure and preventive for Pear Blight, write to R. Warnock & Co., Independence, Mo., for their 21 page Booklet. We invite the most thorough investigation.

R. WARNOCK & CO., Independence, Mo.

Victor Détriché, Nurseryman

ANGERS, FRANCE.

Grower and Exporter of FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.

Write direct, I have no agent.

TREES

Burbank's Creations

We are offering for the First Time

Santa Rosa Plum, Rutland Plumcot, Rayal and Paradox Walnuts

Send for Illustrated Booklet. We are making Special Prices to the trade.

ROSES

Our stock of BUDDED ROSES is the best we have ever grown and we are offering them at prices lower than ever before. Write for advance wholesale price list.

NUT TREES

WALNUTS—All the leading standard varieties in grafted and seedling trees.

PECANS—Our stock of Seedling Pecans is very heavy. We offer these at prices which we are sure will appeal to you.

We have a full line of everything else in Fruit Trees and are particularly strong on BUDDED CHERRIES and APPLES. Catalogue mailed on application.

FANCHER CREEK NURSERIES, INC.

GEO. C. ROEDING, Pres. and Mgr.

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CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Year Old for Fall, of 1907 and Spring of 1908 Delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fibrous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

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Has kept us busy all fall. Every tree in our storage is above criticism. Finest stock and fullest assortment we ever offered. Our prices are meant to pull trade.

We Offer **APPLE** Budded and Grafted,

CHERRY, PLUM, PEACH,

Standard **PEAR, QUINCE,** Dwarf

ORNAMENTAL TREES, SHRUBS AND VINES.

FAIRMOUNT NURSERIES,

The GEO. PETERS NURSERY CO., Proprs. .. TROY, OHIO.

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C. M. HOBBS & SONS,

——— Successors to ———

ALBERTSON & HOBBS,

: BRIDGEPORT, IND. :

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FOR

FALL of 1907 and SPRING of 1908

PLUMS (large stock, all grades) European, Japan, AMERICANA, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

Grafts put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market.

TRADE LIST READY

We can supply any amount of light grade pear and SMOOTH STRAIGHT Norway Maple.

WANT LISTS PRICED PROMPTLY.

You Need Them and We Have Them

WHAT?

WHY ALMOST ANYTHING IN THE WAY OF

Fruit and Ornamental Trees,

Grafted Pecans and Pears Especially.

WE CAN HANDLE LARGE ORDERS TO YOUR ENTIRE SATISFACTION. WRITE US

ARCADIA NURSERIES,

WHOLESALE—RETAIL.

J. H. Girardeau, Jr., Mgr. MONTICELLO, FLA.

CHOICE ORNAMENTALS

Ask for Estimates.

HIRAM T. JONES,

Union Co. Nurseries, Elizabeth, N. J

JAS. M. KENNEDY,

DANSVILLE, N. Y.

Nurseries at Dansville and Geneseo, N. Y.

GENERAL NURSERY STOCK,

Stand. and Dwf. Pear, Cherry, Apple, Quince and Plum, Fine stock, 2 yrs. old.

BUDS, BUDS, BUDS, free from San José Scale.

Pear, Plum, Cherry, Quince and Apple, can ship same day order is received. Send your order, prices will be made satisfactory.

When writing to Advertisers mention The National Nurseryman.

[Established 1859]

PEACH SEED

If you want PEACH SEED write us for samples and prices. Our stock is all crop of 1907.

P. O. Box 451 **W. W. Wittman** BALTIMORE Maryland C. & P. Phone 4382 St. Paul

Dept. M **RHODES MFG. CO.,** GRAND RAPIDS, MICH.

THE ONLY PRUNER with blade that cuts from Both Sides of the Limb and does not bruise the bark. Made in all styles and sizes. We pay express charges on all orders. Write for circular and prices.

Forest Tree Seedlings.

We are now booking orders for the following forest tree seedlings, all of our own growing, well graded, in sizes given below. Write us for quotations by the thousand, or in car lots. Our prices are right; so is our stock.

Black Locust,	sizes	8-12 in.	Catalpa Speciosa,	sizes	8-12 in.
		12-18 "			12-18 "
		18-24 "			18-24 "
		2-3 ft.	Russian Mulberry,	sizes	6-8 "
		3-4 "			8-12 "
Honey Locust,	sizes	4-8 in.			12-18 "
		8-12 "	Osage Orange,	sizes	4-8 "
		12-15 "			8-12 "
Box Elder,	sizes	4-8 "			12-18 "
		8-10 "			18-24 "
		10-15 "	Black Walnut,	sizes	12-18 "
		15-24 "			18-24 "

GERMAN NURSERIES,

CARL SONDEREGGER, Prop., BEATRICE, NEB.

ADVERTISING is the keystone of a successful business." Had yon not better consider the matter? Card of advertising rates sent on application. THE NATIONAL NURSERYMAN PUB'G CO. INC. ROCHESTER, N.Y.

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We have a limited supply of natural Virginia Seed of 1907 that we can offer you at a reasonable price also 1906 Crop.

MILTON SEED CO. 723 S. Milton Ave BALTIMORE, MD.

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J. E. Stoner, Prop. = = Westminster, Md.

I offer to the trade a good supply of Peach, Raspberry, Strawberry and 1 and 2 yr. Asparagus Plants, also a good supply of Carolina Poplars, from 6 to 15 ft.

WANTED, lowest prices on first class Apple Trees for early spring shipment.

WANTED--- Two or three hundred Xmas Trees, Norway Spruce, 4 to 10 ft. Terms, cash. Address

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111--D. St., N. W. - - - Wash, D. C.

Fritsch & Becker, Wholesale Seedsmen

GROSSTABARZ, GERMANY,

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Forest Tree Seeds and Fruit Tree Seeds

of unsurpassed quality at low prices. **Specialties:** Fresh seeds of Black and Honey Locust, Mulberry, Dog Rose, Apple, Pear, Wild Cherry, Mahaleb Cherry, Plum, Quince and others. Write for price list, it will be worth while.

Offers of American Evergreen Tree Seeds requested.

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HOUGHTON GOOSEBERRY

Strong Two-year Plants Ready for Shipment

Two-year Asparagus Roots, Cottonwood and Box Elder Seedlings. Write for Prices.

WE WANT an experienced packer. Write, stating age, experience and wages expected.

OSCAR H. WILL & CO.

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ORNAMENTAL STOCKS

NURSERIES
420 ACRES

WE GROW

FRUIT TREE STOCKS—All Sizes.
300 varieties of Conifers, 1 to 4 years old.
1200 varieties of Ornamental Trees and Shrubs, 1 to 3 years old.
1600 varieties of New and Old Ornamental Trees & Shrubs in all sizes
250 varieties of Climbing Plants.
400 varieties of Conifers, 1 to 4 feet high.
400 varieties of Perennials.
800 varieties of New and Old Roses.

We Have No Agents. Write direct to us and ask for WHOLESALE CATALOGUES

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16 Route d'Olivet **BARBIER AND CO., Successors,** Orleans, France

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I have control of several thousand acres of Mountain land covered with Rhododendrons and am in a position to get these out on reasonable terms. Address, . . .

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FOR SALE ONE THOMAS TREE BALER, practically NEW, has never been used, which we will sell at a Very Low Price. Also one Bragg's Tree Digger. Address LOCK BOX 220, GENEVA, N. Y.

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4,000 Pinus strobus for spring shipment. Sizes, 2 to 6 ft. Special price in car lots.

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We are pleased to announce that we will have our usual supply of Cherry, One and Two Year, that promise very fine.

While we grow Cherry in larger quantities than any other Stock, we also have a very complete line of the following:

Apple, Std. Pear, Plum, Peach, Roses, Shade Trees, etc.

CAR LOAD LOTS A SPECIALTY.

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We have on hand a limited quantity of mixed varieties of Peach seed which we offer at reasonable prices.. Write us for samples.

THE GROWERS SUPPLY CO.
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Warehouse, 1st Ave. and 8th st.

4,000,000 PEACH TREES

J. C. HALE, *Prop.*

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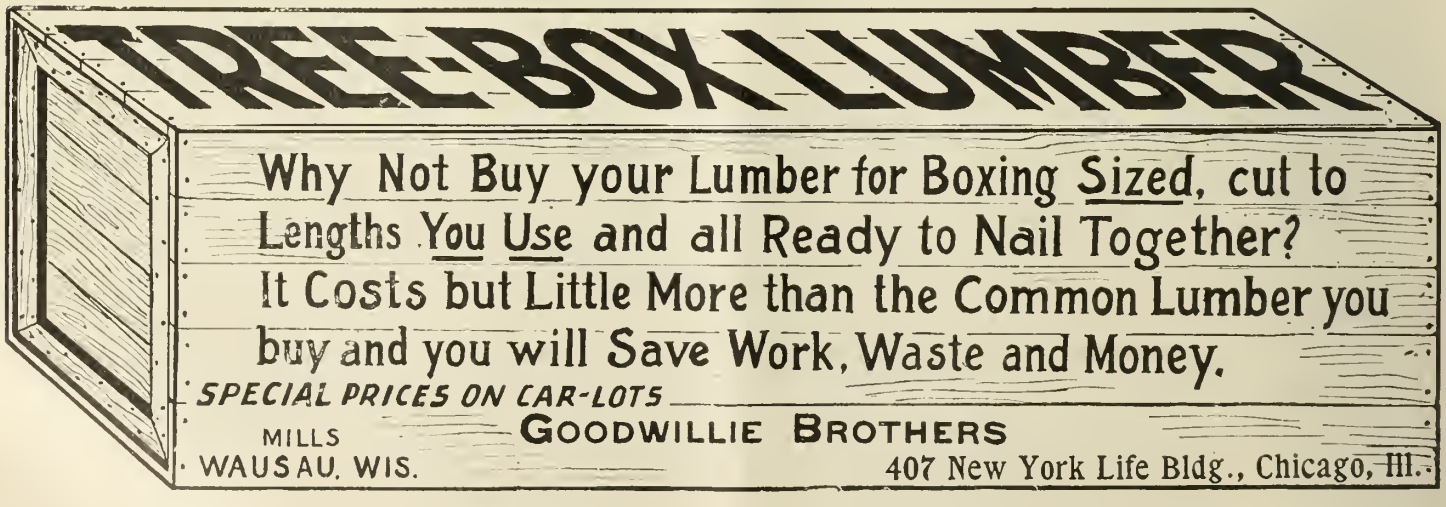
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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
SPECIAL PRICES ON CAR-LOTS
MILLS
WAUSAU, WIS.
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EVERYTHING IN

Small Fruit Plants.

Ask for price list.

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BERBERRY THUNBERGII
HYDRANGEA PAN. GRAND
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Send for List and Prices. And Other Shrubbery.

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ROYAL NURSERIES,

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Specialties in Ornamental Trees and Shrubs and Conifers. Headquarters for London Planes, Tilia dasystylla. Dutch Elms in extra fine specimens. Hydrangea paniculata grandiflora. Silver variegated Maples.

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Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

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AUSTELL, GA.

OFFER FOR FALL AND WINTER SHIPMENT.

3 yr. Pecan, 1 and 2 yr. English and Black Walnut Trees. Year old and June Bud Peach, 1 and 2 yr. Apple, Pear, Plum, Cherry, Quince, Hicks Mulberry, Brown Turkey Fig, Grapevines, Carolina Poplar, Catalpa, Box Elder, Am. Linden, Magnolia Grandiflora, Forest Trees, Amoor River Privet, Roses, Spruce, Arborvitaes, Pines, &c., &c. I also offer a few bushels of PEACH SEED, CAR. POPLAR and AMOOR RIVER PRIVET CUTTINGS.

Everything fine, clean and healthy. Satisfaction guaranteed.

JAMES CURETON, Proprietor.

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Winfield, Kansas.

OFFER

Peach Seed, 50 bushels	
Black Locust, 3-4 ft	53000
2-3 ft.	130000
18-24 in.	535000
12-18 in.	325000
6-12 in.	240000
Mahaleb, French, 5-9 mm	100000
5-8 mm.	46000
4-6 mm.	100000
Mahaleb, home grown extra heavy	111000
5-8 mm.	227500
4-5 mm.	182300
2-4 sold	
Myrabolen French, 4-5 mm	3000
Myrabolen Home, 7-10 mm	5000
5-7 mm.	5000
4-5 mm.	7000
French Pear, 6-10 mm	50000
5-7 mm.	45000
Japan Pear, No. 1 3-16 in	16500
Quince (Anger) 5-7	30000
Apple, French Crab, 3-16 in. br	25000
3-16 in. St	25000
No. 2, 3-16 in. br	30000
3-16 in. St	295000
Cherry two years old, ¾ in. and up	2000
⅝-¾ in.	8000

Varieties—Dyehouse, Early Richmond, English Morello, Montmorency, May Duke, Ostheim and Wragg.

ALSO SHADE TREES IN CAR LOTS.

WINFIELD NURSERY COMPANY,

PAN HANDLE NURSERIES,

GREENFIELD, IND.

Offer a complete general assortment of

NURSERY STOCK,

Large Stock of Fruit and Shade Trees, Small Fruits, Roses, Ornamentals, Forest Tree Seedlings, etc.,etc.

Specialty:

DEALERS' COMPLETE LIST OF WANTS.

Packing and other facilities unexcelled.
Please allow us to price your want list.

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LABELS FOR NURSERYMEN.

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LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere.

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Representing in
United States and Canada

VINCENT LEBRETON,
ANGERS, FRANCE,

Grower and Exporter of

FRUIT and ORNAMENTAL SEEDLINGS

Such as

Pears, Apples, Mahalebs, Mazzards, Myrobolans,
Angers Quince, Manetti, Etc.
Also a Full Line of Ornamental Stocks.
Own Cultures Exceed 20,000,000 Stocks.
Write for special prices, lists, catalog, etc.

SCHAUM & VAN TOL,
Boskoop, Holland,

Wholesale Growers of

H. P. and TREE ROSES, RHODODENDRONS, HARDY AZALEAS, BOXWOOD, PAEONIES, CONIFERS, Etc.

Also full line of Boskoop grown stock.
Write for special prices, lists, catalog, etc.

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Oudenbosch, Holland,

(H. W. Van Der Bom, Director).

SYNDICATE OF PRINCIPAL GROWERS
OF
NORWAY and SCHWEDLER MAPLES, HORSE CHESTNUTS, RIVERS PURPLE BEECH, THORNS, LIMES, ELMS, PLANES, Etc.
Also Full Line of Evergreens.
Large Quantities. Lowest Prices.
Write for special price lists, catalog, etc.

We are direct importers of
ENGLISH MANETTI, RHODODENDRONS, Etc.
JAPANESE NURSERY STOCK, MAPLES,
SCIADOPITYS, TREE PAEONIES,
THOYA, JAP. BULBS, Etc.

RAFFIA, Red Star Brand.

The Nurseryman's Grade.
Long, Strong, White Strands in Braided Hanks.
Stock always on hand. Samples sent free.
BALE LOTS ONLY.

SHIPPING. We have our own Custom House Department. Special facilities at Havre, Antwerp, Rotterdam, Southampton, Hamburg, etc. Lowest rates consistent with perishable nature of stock.

McHUTCHISON & CO.
17 Murray St., NEW YORK.

When writing to Advertisers mention the National Nurseryman.

DREER SPECIALTIES

Hardy Perennials in immense quantities and greatest assortment—Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy Chrysanthemums, Delphiniums, Hardy Grasses, Hemerocalis, Heleniums, Helianthus, Hollyhocks, Japanese and German Iris, Lychnis, Paeonies, Phloxes, Hardy Pinks, Primulas, Pyrethrums, Rudbeckias, Thalictrums, Tritomas, Veronicas—in fact everything in the Hardy Perennial line worth growing.

Decorative Plants—Palms, Ferns, Ficus, Pandanus, Araucarias, Dracaenas, etc.

Hardy Decorative Plants—Aucubas, Box-wood and Bay Trees in all shapes and sizes; a large assortment.

Dahlias—Over a quarter of a million strong field-grown roots in stock in over 200 varieties in Cactus, Show, Fancy, Decorative, Paeonia-flowered, Pompone, Single and Century types.

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Bulbs—Amaryllis, Begonias, Caladiums, Gladiolus, Lilies, Tigridias, Tuberoses, etc., etc.

All of the above as well as other seasonable stock is fully described in our Wholesale List issued quarterly.

HENRY A. DREER
714 Chestnut Street, Philadelphia, Pa.

The L. Green & Son Co.

PERRY, LAKE CO., OHIO.

OFFERS FOR FALL '07 AND SPRING '08, ONE OF THE MOST COMPLETE ASSORTMENTS IN THE COUNTRY.

HEAVY on Std. and Dwf. Pear, European, Japan and Native Plum, Peach, Ornamental Trees and a fine lot of Poplars, including 1 yr. whips. Lots of shrubs, vines, roses, evergreens, herbaceous and perennial plants. Also a nice lot of 1 yr. grapes that promise to be good stuff.

Correspondence solicited and inspection invited.

When writing to Advertisers mention the National Nurseryman.

WANTED PRACTICAL NURSERYMAN

with excellent experience as sales manager and correspondent in retail nursery agency business, seeks engagement either on salary or participation basis. Conversant with every departmental scheme from methods of securing salesmen to collecting accounts. Can install complete smooth-working system for conducting nursery agency business. Address Good References, care NATIONAL NURSERYMAN

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Americana Plum Seedlings

The only good Grafting and Budding Stock for Americana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Paeonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

Are Leaders to the Trade this Year.

We also offer a general line of Nursery Stock, including Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRIG 1908.

A very complete assortment of Fruit, Shade and Ornamental Trees, Shrubs, Roses, Evergreens, Small Fruit and Herbaceous Plants, Forest Tree Seedlings in large quantities, including Catalpa Speciosa (genuine) for commercial Forest planting. Tree seeds of all kinds in season. Special prices quoted on the following trees: Tulip, Poplar, Catalpa Speciosa, Am. Sycamore, Am. Linden, Green Ash, Eup. Mt. Ash and Oak Leaf Ash, Am. Elm, Red, White, Swamp and Burr Oak from 5 to 12 feet. Write for prices.

THE DONALDSON COMPANY,

WARSAW, KENTUCKY.

Fruit Tree Seeds

FRENCH CRAB and PEAR are very scarce. We do not expect to have enough to meet the demand. Of course, those who order early will be given first choice. Write NOW.

MYROBOLAN PLUM. We collected a limited amount of first class seed. Not any too much for our customary sales, so better speak promptly if you intend to order Sample free.

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KIEFFER PEAR. Fresh, plump seed. Cured on our nursery by our special method. Write before supply is sold.

Manetti Rose Stocks.

Medium grade for grafting. Also larger budding size for nurserymen. Thrifty and well rooted.

Young Plants for Lining Out.

List is ready. Ask for a copy and order while the assortment is complete. Stock is for Spring shipment, but unless you order NOW, you cannot expect to get the choice items. In view of the stockiness and vigor of the plants, our prices are remarkably low. They represent an excellent investment. You cannot afford to be without this list. Write us TO-DAY.

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Seedsmen and Wholesale Nurserymen.

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APPLE SCIONS FOR DELIVERY after Nov. 15th.

Write for prices.

We also offer a large stock of *Apple, Arbor Vitae* in variety, *Evergreens, Shrubs,* Deciduous Ornamental Trees, *Peonies,* etc.

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Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Paeonies, Magnolias, Box Trees, Fancy Conifers, Hydrangeas and Shrubs, our specialties at our HOLLAND NURSERIES. Some of the goods on hand here during the packing season.

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CAROLINA POPLARS BLACK WALNUTS
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AUSTRALIAN WINTER RHUBARB--Myatts Linnaeus
BERRIES—Phenomenal, Himalaya Giant and Mammoth Blackberries and Raspberries. Large Assortment.

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FOR SALE---1600 5-8 to 3-4 Salway Peach

Trees, 3400 1-2 to 5-8 Salway Peach Trees.

Very fine in every respect. Would exchange for 2 yr. 5-8 apple. A. HAMILTON & SONS, Bangor, Mich.

Two hundred and fifty thousand Amoor River Privet, Ligustrum Amurense. Ours is the true variety, 2½ to 3 feet, strong field grown plants.

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Surplus Stock, Spring 1908.

10,000 Peach, 1 year, 2 to 3 feet,
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10,000 Peach, 1 year, 3 to 4 and 4 to 5 feet.
50,000 Peach, June Buds, 18 to 24 inches.
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

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Can also furnish a few of the leading varieties.

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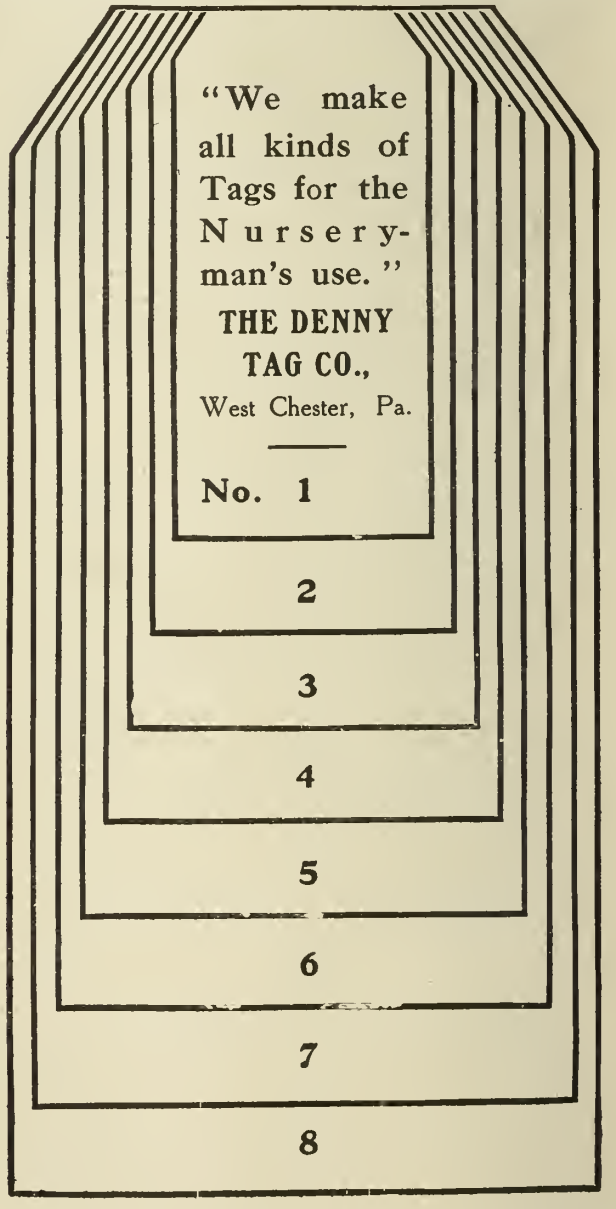

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12 Acres Peonies

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FROM THE PEACH BELT OF NORTHERN OHIO CROP 1907 (SUN DRIED) FINE SHAPE. CROP SHORT. ORDER AT ONCE. FIRST COME, FIRST SERVED.

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OUR SPECIALTY

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Plant any time from September till May. Headquarters for California Fruits and Berries. Write for quotations on your needs.

Peach Seed in Car Lots.

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Radicans 1--1 1-2 ft. and 2--2 1-2 ft.

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Any Lengths up to 63 Inches.

Light, soft, strong, cheap, convenient. Eight straps 12 inches long cost one cent. We sell 300 nurserymen.

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Our long growing season gives wonderful development, our shipping season great advantages.

Largest and best assorted stock in the South.

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Our Trade List on application. Orders booked now for Fall or Spring delivery. Car lots a specialty.

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French Nursery Stocks, Dutch Bulbs,

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All grown specially for the American trade.

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The most complete assortment of Ornamental Stocks, Trees and Shrubs.

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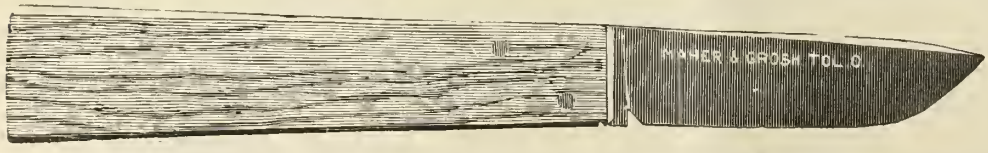
Allow me an opportunity to figure on your wants. A postal will bring you a list of the best varieties.



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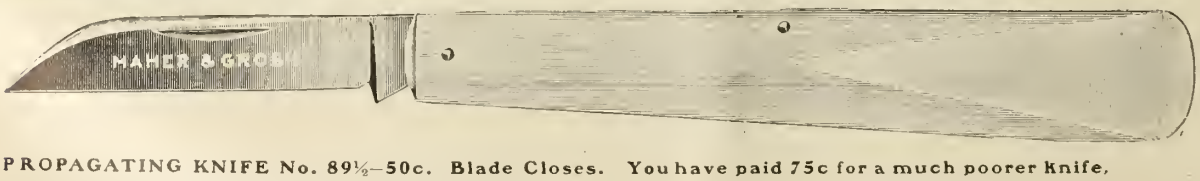

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Hand Forged Razor Steel Warranted

Nursery Pruner, 50cts.
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Extensive Desiccating Establishments for Forest Tree Seeds.

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We have still on hand a fine lot of well matured and well rooted Black Locust Seedlings in single thousand or car lots. Also a few thousand Mulberry, Osage and Honey Locust. Let us price your wants in this line. CATALPA Seedlings sold.

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KIEFFER STANDARD PEARS,
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ALL GRADES

Grades and Quality as Good as the Best.

PRICES AS LOW AS THE LOWEST

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A fine lot of 1, 2 and 3 year old Privet, cut back this spring, heavily branched.

Several hundred bushels of Selected Peach Seed. **We pack dealers' orders.** **Send us your list of wants, also your surplus list**

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Of all sizes from four to sixteen feet.

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All varieties, largely of Abundance and Burbank.

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Tree strikingly ornamental: 1 yr. seedlings, 6-12 inches. Nuts very valuable; perfectly hardy in Northern California.

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1 yr. seedlings, 8-12 inches, from trees bearing immense crops annually of superior soft-shell nuts. Whether as direct producers, or as stock for grafting, this strain will be found of exceptional vigor. Prices are right, as our stock is large.

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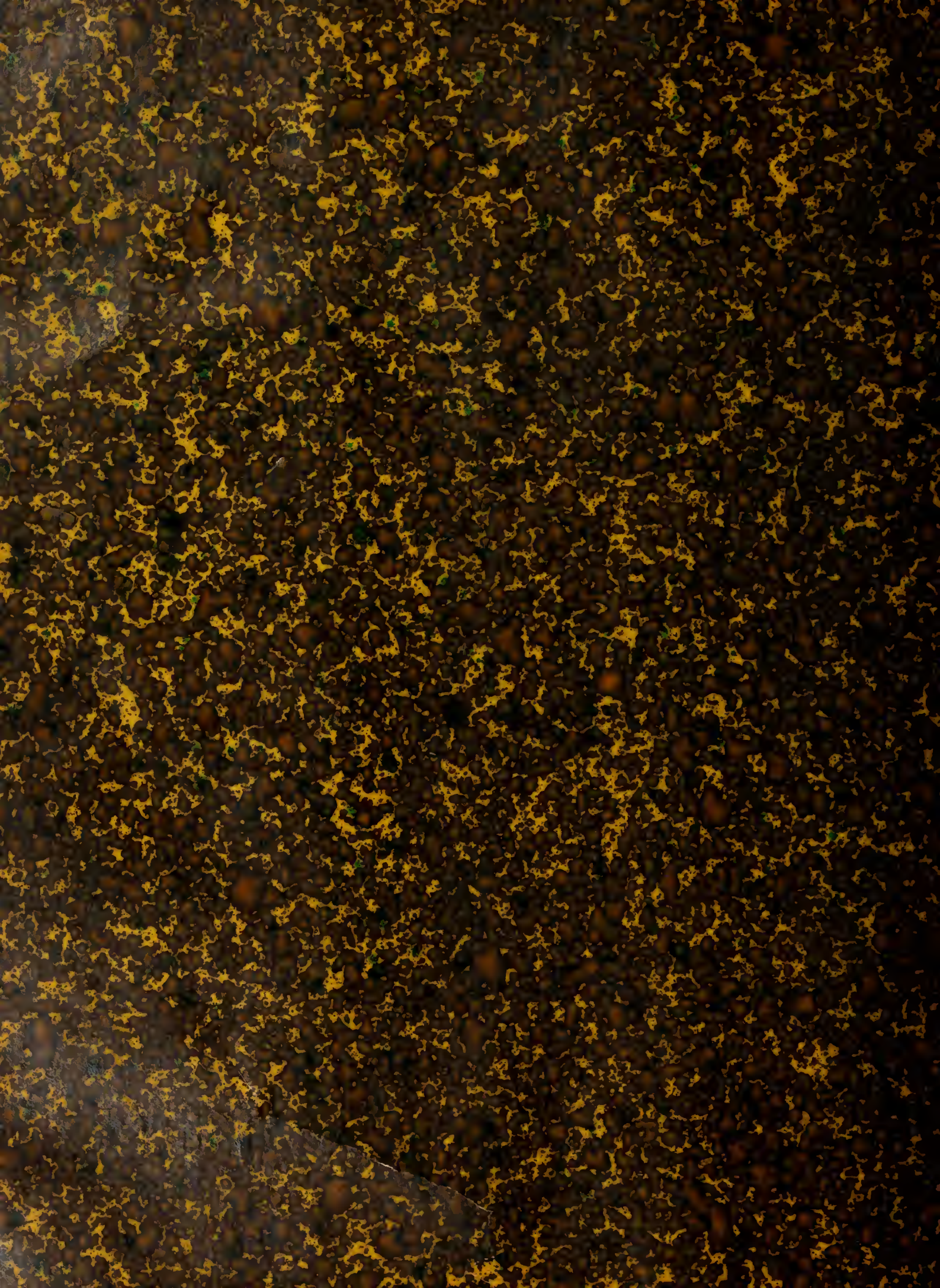

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